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# Organic Chemical Producers Data Base Development and Update

S-Cubed, La Jolla, CA

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Cincinnati, OH

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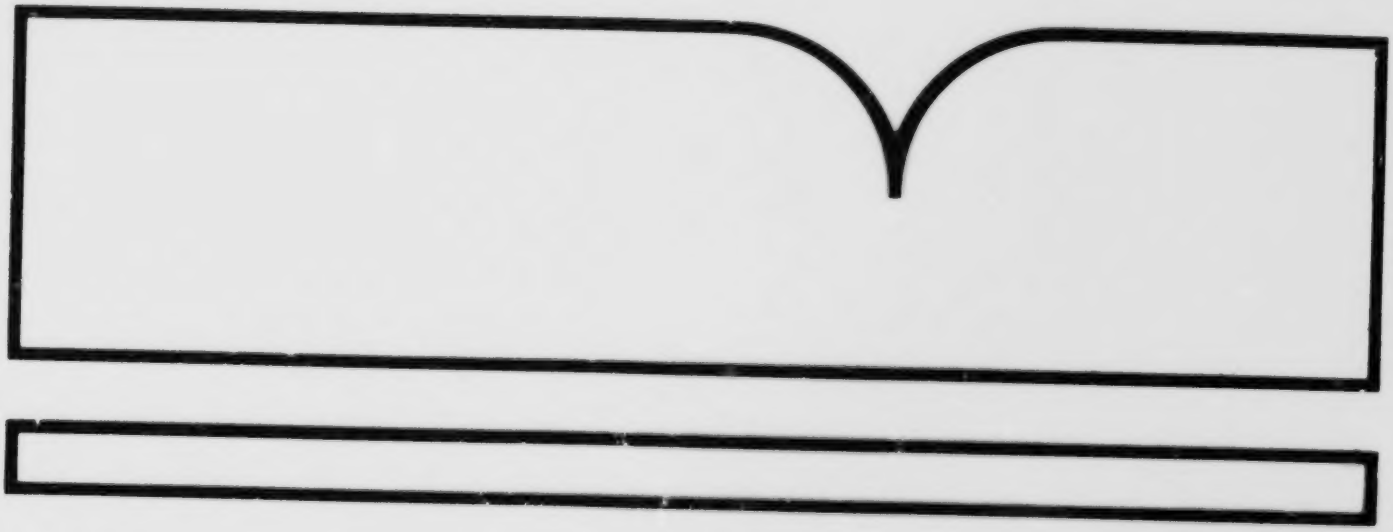

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January 1984

# ORGANIC CHEMICAL PRODUCERS DATA BASE DEVELOPMENT AND UPDATE

by

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S-CUBED
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68-03-3015
Work Assignment No. 6

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This report describes modification, content expansion and update activities performed on the Organic Chemical Producers Data Base (OCPDB), an EPA-owned, computerized information system containing data on chemical products and industrial production facilities located in the United States. A brief description is given of the OCPDB system structure as implemented under System 2000®, the data base management system currently used for the revision, update and maintenance of the OCPDB. A discussion of OCPDB data is presented, describing the types of information available in this data base. Revisions to the OCPDB scheme made to facilitate the incorporation of additional information are described, and a newly-developed data report for chemical uses is illustrated. Content expansion, verification and update activities for all data are discussed in detail, and appropriate reference material is cited specifically for each component of data. A recommended, stepwise procedure for incorporation of the OCPDB as an individual component of the EPA/NIH Chemical Information System is presented, along with recommendations to expand the scope of information and improve the utility of the data base. Examples of all OCPDB standard reports are illustrated and a listing of chemicals and producers comprising the OCPDB is presented.

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## FOREWORD

When energy and material resources are extracted, processed, converted, and used, the related pollutional impacts on our environment and even on our health often require that new and increasingly more efficient pollution control methods be used. The Industrial Environmental Research Laboratory - Cincinnati (IERL-CI) assists in developing and demonstrating new and improved methodologies that will meet these needs both efficiently and economically.

To assist in the analysis of organic chemical manufacturing processes and product uses the content of the Organic Chemical Producers Data Base (OCPDB) has been expanded, updated, and modified.

This report presents the result of these development activities, as well as, a description of the OCPDB mechanics, data content and the various standard reports available in the OCPDB program library. Information contained in the latest revision of the OCPDB should be of interest to users researching the industrial origin and fate of this data base's 605 chemicals. Information about accessing the OCPDB and its standard reports may be obtained by contacting the Organic and Inorganic Chemicals and Products Branch of IERL-CI.

David G. Stephan
Directory
Industrial Environmental
Research Laboratory -
Cincinnati

## ABSTRACT

This report describes modification, content expansion, and update activities performed on the Organic Chemical Producers Data Base (OCPDB), an EPA-owned, computerized information system containing data on chemical products and industrial production facilities located in the United States. A brief description is given of the OCPDB system structure as implemented under System 2000®, the data base management system currently used for the revision, update and maintenance of the OCPDB. A discussion of OCPDB data is presented, describing the types of information available in this data base. Revisions to the OCPDB schema made to facilitate the incorporation of additional information are described, and a newly-developed data report for chemical uses is illustrated. Content expansion, verification and update activities for all data are discussed in detail, and appropriate reference material is cited specifically for each component of data. A recommended, stepwise procedure for incorporation of the OCPDB as a individual component of the EPA/NIH Chemical Information System is presented, along with recommendations to expand the scope of information and improve the utility of the data base. Examples of all OCPDB standard reports are illustrated and a listing of the chemicals and producers comprising the OCPDB is presented.



This report has been submitted in fulfillment of EPA Contract No. 68-03-3015, Work Directives 0003 and 0006, by S-CUBED of San Diego, California.


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## LIST OF ABBREVIATIONS AND SYMBOLS

| | |
|---|---|
| AQCR | - Air Quality Control Region |
| CAS | - Chemical Abstracts Service |
| CIS | - Chemical Information System |
| CFR | - Code of Federal Regulations |
| CMR | - Chemical Marketing Reporter |
| DBMS | - Data Base Management System |
| DMS | - Data Management System |
| ICPDB | - Inorganic Chemical Producers Data Base |
| IERL-CI | - Industrial Environmental Research Laboratory - Cincinnati |
| IPPEU | - Industrial Process Profiles for Environmental Use |
| NCC | - National Computer Center |
| NIH | - National Institutes of Health |
| NIOSH | - National Institue for Occupational Safety and Health |
| OCPDB | - Organic Chemical Producers Data Base |
| PDR | - Product Data Report |
| PDRN | - Product Data Report - Nationwide |
| PLEX | - Procedural Language Extension |
| SIC | - Standard Industrial Classification |
| WLN | - Wiswesser Line Notation |
| % DOM | - Percent Domestic Use |

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# 1.0 INTRODUCTION

The original Organic Chemical Producers Data Base (OCPDB) was developed in 1976 for the U.S. Environmental Protection Agency's (EPA) Industrial Environmental Research Laboratory in Cincinnati, Ohio (IERL-CI). Initially, the OCPDB consisted of a matrix of about 380 chemicals and 610 producing plants, which were incorporated into a computerized information system in order to provide ready access to data.

Since 1976, the OCPDB was revised and updated to a point where it now contains 605 chemicals (14). The capabilities of the system were expanded by the addition of chemical and producer related data. These additions included such items as Chemical Abstracts Service (CAS) registry numbers, use data and production process descriptions for chemicals; items such as river basin code and EPA region were added for producers.

The OCPDB was implemented in 1979 with System 2000, a Data Base Management System (DBMS) offering increased programming flexibility over other DBMS programming methods. It also has superior capabilities for retrieving, reporting, and analyzing data. The OCPDB, which was revised and updated during this work assignment using the System 2000 DBMS, is now on the Univac 1100 at the EPA National Computer Center (NCC) located in Research Triangle Park, North Carolina.

This report describes data expansion and update and modification activities performed by S-CUBED under EPA Contract No. 68-03-3015, Work Directives 0003 and 0006.

## 2.0 CONCLUSIONS AND RECOMMENDATIONS

A major focus of this project has been to enhance the chemical use presentation capabilities of the OCPDB. In this regard, data expansion and update activities, modifications to the schema and the creation of a new chemical use report have added new utility to the OCPDB. With sources of information used during previous updates (including the latest editions of this information) and with additional sources of information, a content update was performed during which producer data and chemical use data were added to the data base. Several components of chemical toxicity data were removed. As a result, the latest revision of the OCPDB should be of interest to users researching the industrial/commercial origin and fate of this data base's 605 chemicals.

A standardized chemical use nomenclature was developed during this project to consolidate the original (1800) number of use descriptions and thus achieve verbal consistency. This activity was aimed at producing a list of terms for the purpose of searching the OCPDB for appropriately defined chemical use categories. Another aim of this activity was to produce a list of nomenclature that is compatible with the numerical codes given by the Standard Industrial Classification Manual (18). In this way, steps were taken to link the industrial/commercial origin and fate of each chemical in the OCPDB with other chemicals and allied products, as well as with directly related commercial and industrial applications of these chemicals. This operation was performed in coordination with OCPDB modifications intended to differentiate "uses" for the derivation of other chemicals and allied products from those "uses" for direct commercial/industrial applications.

Long process descriptions (unlimited length) were developed to provide a more detailed explanation of the previously established brief process description (less than 59 characters) for those processes presented in "Industrial Process Profiles for Environmental Use" (IPPEU) (6-13). Since this operation included information contained in all chapters of the IPPEU, the previous, three digit IPPEU reference number (implicit to Chapter 6) was modified to include the chapter number.

Additional process data was developed to include information on process reaction components, other process materials and short process descriptions (less than 59 characters). These data, which were derived for each OCPDB chemical from the IPPEU and other literature, were developed primarily for the presentation of the revised Product Data Report (PDR).

The main benefit of this most recent data expansion, update and modification to the OCPDB is that this data base can now be used to draw chemical-chemical lines of evolution (trees). This tree concept

can be developed further to produce a standard report showing major evolutionary paths taken from raw materials through intermediate chemicals to end uses. This "road map" approach would serve to direct more specific querying regarding finer levels of the derivation and fate of OCPDB chemicals, as well as for those chemicals presented in the Inorganic Chemical Producers Data Base (ICPDB). A procedure to conduct specific query by interactive dialogue with the OCPDB at a Video Display Terminal can also be developed to explore trees that are too large, in their entirety, to fit within a limited standard report format. Using such a procedure, the user would explore a tree interactively by displaying and/or printing part of the total tree. To see other parts of the tree, the user would direct the program to display additional branches stemming from any given chemical shown on the edge of the display.

For a general purpose addition, modification and deletion of data, for all OCPDB data entries, a complete set of coding forms was developed for the direct use of EPA at IERL-CI. This effort included the creation of logic and coding within the update program to accept inputs and perform modifications to all entries. An OCPDB update procedure was also prepared and an on-site demonstration of this material was conducted at IERL-CI.

During the course of this project, ten standard OCPDB reports were generated for six requestors.

As a subelement of this work assignment, S-CUBED was directed to render assistance to develop the OCPDB as a component of the National Institutes of Health/EPA Chemical Information Service (CIS). During an investigation to estimate the information required to perform this activity, it was determined that an expanded level of effort would be required. This activity would involve a three man-month effort to properly perform the appropriate modifications to the System 2000 schema and related software, including any necessary rewriting and debugging and the creation of appropriate user documentation.

# 3.0 MECHANICS OF THE OCPDB

Since 1979, the OCPDB has been implemented under System 2000. This widely used Data Base Management System (DBMS) is considered superior for its programming flexibility and capability for retrieving data for analysis. In this section, the OCPDB structure and information retrieval capability using System 2000 is described.

## 3.1 OCPDB STRUCTURE

The OCPDB, as implemented under System 2000, is organized into two types of entries. The first entry type relates to a specific chemical product. The second entry type relates to a specific chemical producer. Figure 3.1 illustrates the hierarchical structure of these two entry types. Data within each entry type are further organized into the logical hierarchical structures illustrated in Figures 3.2 and 3.3. Hierarchical levels are numbered from zero (the level of the entry) to three, for the chemical related entry types and from zero to one for the chemical producer entry types. Data pointers exist in the OCPDB to create a link between these two types of entries. Figure 3.4 illustrates the link between a chemical's production process and a chemical producer. It is this link that ties together the two types of entries in the OCPDB.

For each entry type, two data items are contained in the level zero hierarchy. These items are (1) a unique numerical identifier for the entry and (2) an entry type indicator. The entry type indicator is used to distinguish between chemical products and chemical producers. The level zero hierarchical structure is the same for both entry types. Below level zero, however, product and producer entries differ in structure and content.

For chemical product entry types, three levels of data occur below level zero. Level one contains all descriptive and identifying data. The next level (level 2) contains five categories of data called records in the System 2000 definition (see Appendix A). Each of these records is associated with a specific data classification. These five record classifications are:

- Production Process Data
- Economic Data
- Use Data (for production of other chemicals and allied products)
- Use Data (for direct commerical/industrial applications)
- Synonyms

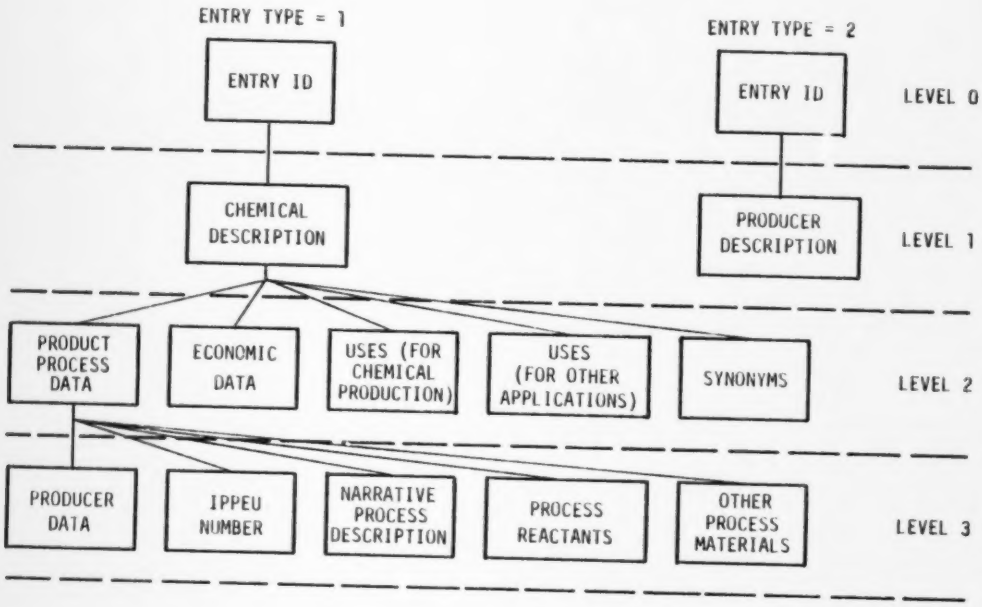


Figure 3.1 General Hierarchical Structure of the OCPDB

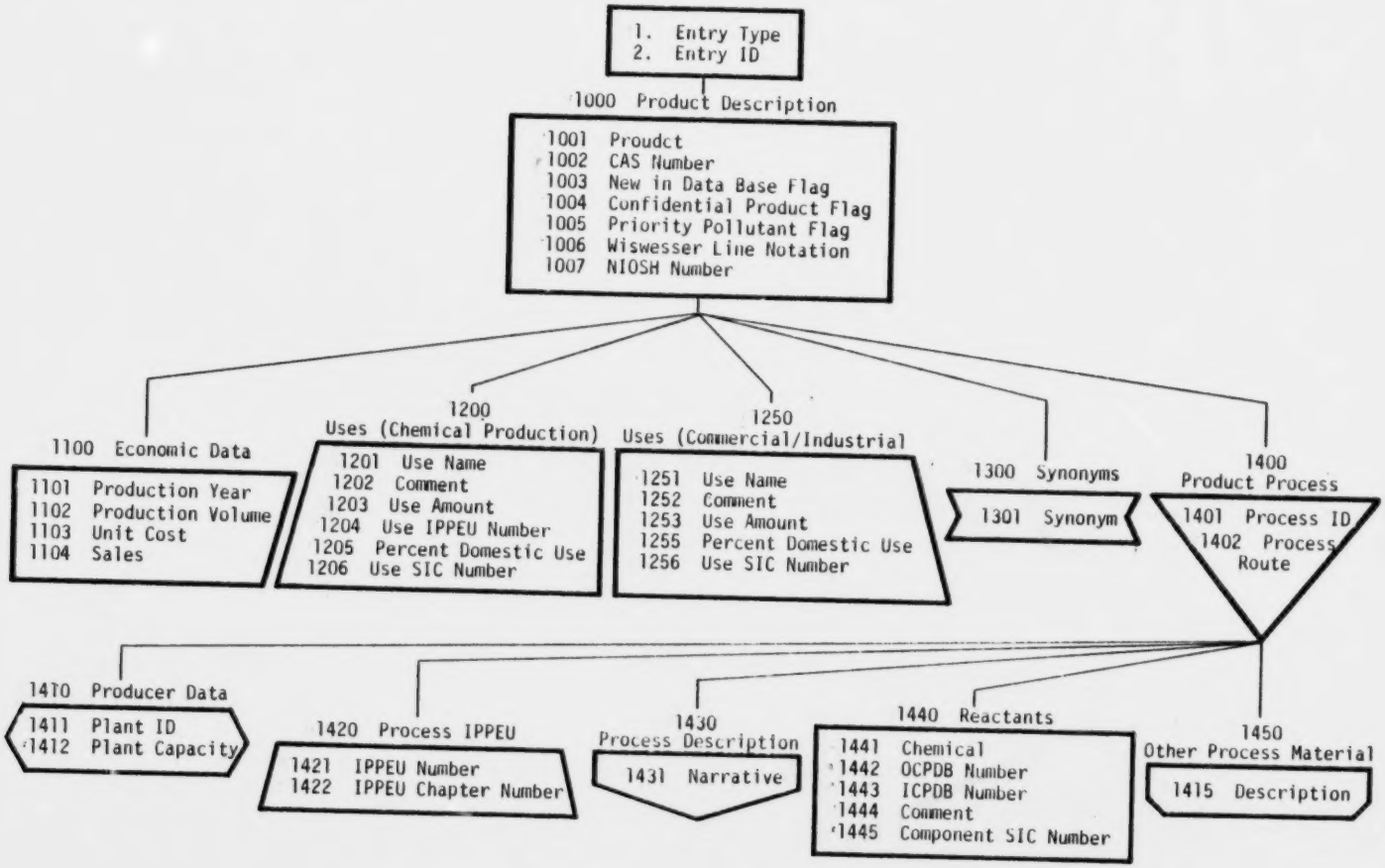


Figure 3.2 Hierarchical Structure of Product Entries

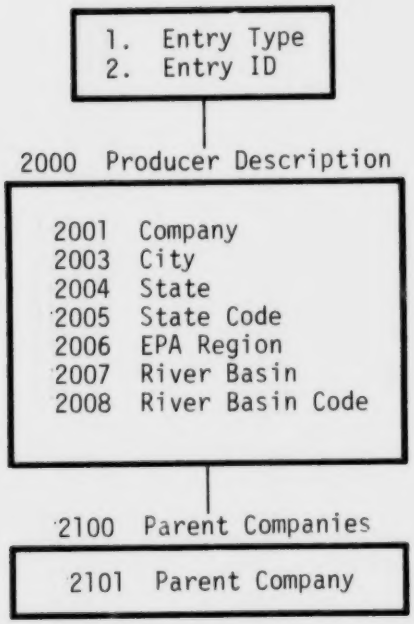


Figure 3.3 Hierarchical Structure of Producer Entries

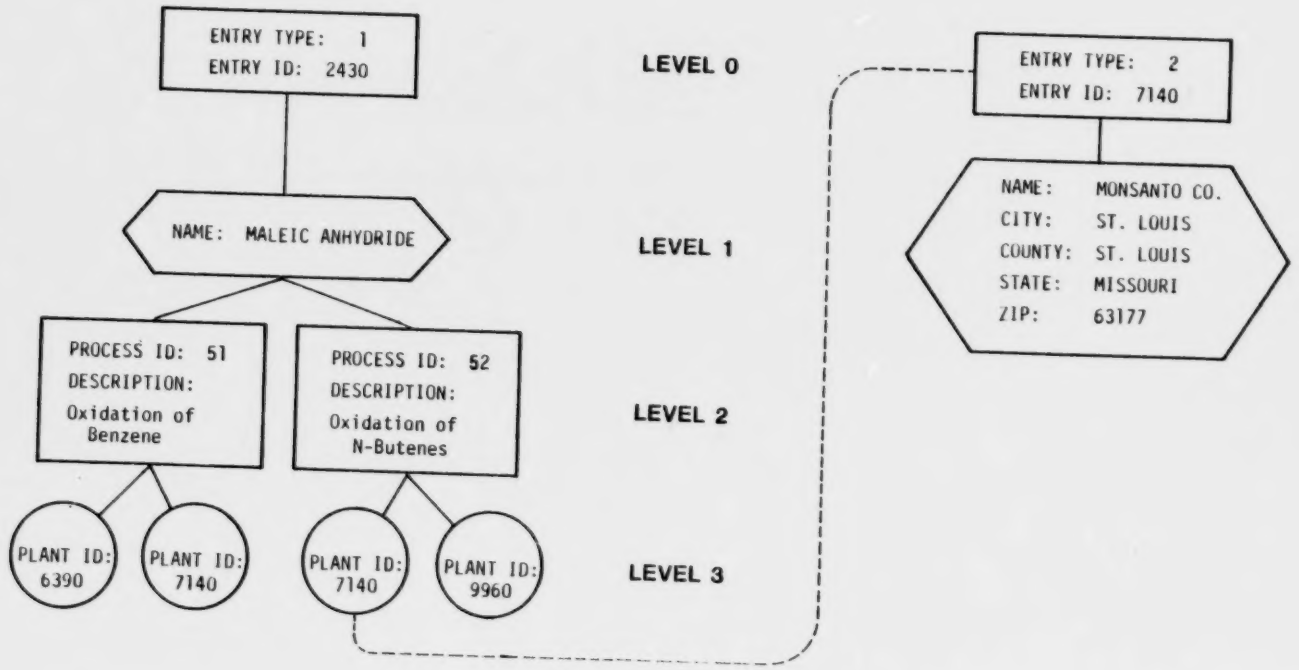


Figure 3.4 Structural Link Between Product and Producer

These groups of data may occur more than once within the same entry type, thus enabling more than one process description, use description and synonym and an unlimited history of economic data for any given chemical.

The five record groups of data appearing at level three are associated with the production process record group of level two. These record groups are:

- Producer Data
- Process IPPEU
- Process Description (Narrative)
- Process Reactants
- Other Process Material

The Producer Data record group lists all the producers of a given chemical product using the product process defined in level two. Each producer is identified by its unique OCPDB identification number.

The second level three record group lists the IPPEU reference number associated with the described process.

The third level three record group contains a narrative description of the process. This description is a more detailed explanation of the short description presented in level two.

The fourth level three record group contains information about the reactants utilized to produce the chemical. Also included in this group is an identification number for those reactants that occur as title chemicals elsewhere in the OCPDB in or in the Inorganic Chemical Producers Data Base (ICPDB), as well as the SIC code that defines the industrial origin of the reactant.

The last record group at level three contains a descriptive list of other materials which are ancillary to the process, but are not actual reactants in the process.

The structure of the chemical producer entry (Figure 3.3), below level zero, consists of one lower level (level one) and is, therefore, simpler than the chemical product entry. Data items comprising level one of the producer entry are company name, parent company name, city, state, river basin name and code, EPA region, zip code, county name, and AQCR code.

The hierarchical structure described above is called the OCPDB definition. In Appendix A, a copy of the OCPDB definition (schema) is presented.

## 3.2 OCPDB DATA RETRIEVAL

One important usage of the OCPDB is the retrieval of information stored in the data base. Although all information may be retrieved through detailed processing, specific searches for particular entries may be made only for certain data types. When the data base is initially described and created under System 2000, elements denoted for search and retrieval are called KEY and, inversely, non-key. Table 3.1 lists the key data elements in the OCPDB which are allowable search items. Any data element not included in this list can only be retrieved in conjunction with its associated key data element. For example, no search can be made for a specific NIOSH number, but the NIOSH number can be retrieved and displayed when a search is made for a specific chemical.

Table 3.1

KEY DATA ELEMENTS

Chemical Product Entries

Chemical Name
Chemical ID Number
CAS Number
Wiswesser Line Notation
New Chemical Indicator
Priority Pollutant Indicator
Production Year
Chemical Use Name
Chemical USE IPPEU Number
Chemical Use SIC
Chemical/Industrial Use Name
Chemical/Industrial Use SIC Name
Synonym
Process OCPDB Number
Process ICPDB Number
Reactant Chemical Name
Reactant OCPDB Number
Reactant ICPDB Number
Reactant SIC Number

Producer Entries

OCPDB and ID Number
Parent Company Name
Producing Company Name
City
County
State
Zip Code
River Basin Name
River Basin Code
EPA Region
AQCR Code

# 4.0 OCPDB MODICATION

The following four activities were performed to enhance the accessibility and useability of the OCPDB.

- Modification to the OCPDB schema to facilitate the inclusion of additional data.
- Creation of a new standard report format - the "Chemical Use Report".
- Assistance to implement the OCPDB as a component of EPA/NIH CIS.
- OCPDB Update Procedure Devemopment

A discusssion of these four project objectives is presented in this section.

## 4.1 MODIFICATION OF THE SCHEMA

The schema, or data definition, can be defined as a map of the overall data structure of a data base. In System 2000, the schema consists of record groups which are organized in a hierarchical tree structure. (See Appendix A)

Modifications were performed to the OCPDB schema for the expansion of the following types of data:

- Use Data
- Production Process Data
- Producer Data

Use data were reorganized for the expansion of two general categories. One category presents the uses of the chemical for the specific derivation of other chemicals, chemcial preparations and allied products. The other category presents the direct uses of a chemical in commercial and industrial applications. For each category, a standard nomenclature was developed (see Secton 5.0) to present use descriptions that can be computer searched for the standard reports entitled, "Chemical Uses" and "Chemical Uses - S-CUBED Version" (see Sections 4.2 and 8.0). Other information contained in each category includes annual amount used, percent domestic use, SIC codes for each use and a supplemental, nonstandardized descriptor (Comment). An IPPEU number is also included for those uses in which the title chemical is utilized to produce other chemicals and allied products.

Production process information was expanded to include a list of process reactants, other process materials and a detailed narrative of the product process.

The producer description was expanded to include the producer zip code, the AQCR code and county.

In order to incorporate these changes, the data base definition was modified so that it now appears as shown in Appendix A. The revised OCPDB definition is compatible with all System 2000 Natural Language string commands and the procedural language extension (PLEX) software previously developed for the OCPDB.

## 4.2 CREATION OF THE "CHEMICAL USE REPORT"

The Chemical Use Report was created to enable the user to locate chemicals according to use. In Figure 4.1 an excerpt from the Chemical Use Report for "Adhesive/Sealant" is presented. In this example the subject "Use" is given in the third line of the main title. Beneath the title, a list of OCPDB chemicals used as adhesives and/or sealants is presented, along with corresponding CAS registry numbers. Also shown for each chemical is the amount produced yearly for this use, as well as the percent of the total domestic production of each given chemical for the subject use. For example: 7% of the yearly production of phenolic resins (112 MMLBS/YR) is used for adhesives and/or sealants. IPPEU reference numbers indicating the production process(es) of each chemical are also presented. Beneath the list of chemicals, producing plants are listed; for tetrahydrophthalic anhydride, two producing plants are listed; for isopropyl ether, four plants are listed. Data given for each producer include producer I.D. number, state, county, city, zip code, river basin name and code and AQCR code. Producing plants for the other chemicals in this listing are not shown in this example.

This use report, which is produced by the System 2000 PLEX Chemical Use Software, is now one of several standard report formats developed for the OCPDB. This report and other OCPDB standard reports are discussed further in Section 8.

## 4.3 ASSISTANCE TO EPA/NIH CIS IMPLEMENTATION

An investigation was conducted to estimate the effort required to develop the OCPDB as a component of the EPA/National Institute of Health, Chemical Information Service (EPA/NIH CIS). This investigation determined that the following steps would be required to perform this activity:

Step 1 Convert the OCPDB System 2000 schema to a schema compatible with the EPA/NIH CIS Data Management System (CIS DMS).

Step 2 Convert the OCPDB contents to a format compatible with the CIS DMS.

ORGANIC CHEMICAL PRODUCERS DATA BASE — LATEST UPDATE: 820417

CHEMICAL USE REPORT

ADHESIVE/SEALANT

| CHEMICALS | CAS REGISTRY NUM. | AMOUNT (MMLBS/YR) | % DOM. | IPPEU |
|---|---|---|---|---|
| 3330 TETRAHYDROPHTHALIC ANHYDRIDE | 85-43-8 | | | 6/40 |
| 2395 (X) ISOPROPYL ETHER | 108-20-3 | | | 6/267 |
| 2905 (X) PHENOLIC RESINS | | 112.000 | 7.000 | |
| 2442 (X) MELAMINE | | 5.000 | 4.000 | |
| 3000 POLYBUTENES | | 30.000 | 26.000 | 6/239 |
| 2442 (X) MELAMINE | | 26.000 | 24.000 | 6/239 |
| 3000 POLYBUTENES | | 6.000 | 5.000 | |
| 2443 (X) MELAMINE-FORMALDEHYDE RESINS | 100-21-0 | | | 6/382 |
| 2925 (X) PHENOXY RESINS | 110-19-0 | | | 6/280 |
| 2443 (X) MELAMINE-FORMALDEHYDE RESINS | 9002-89-5 | 30.000 | 25.000 | |
| 3280 TEREPHTHALIC ACID | 24937-78-8 | | | 6/288 |
| 2260 ISOBUTYL ACETATE | 25322-69-4 | | | |
| 3042 (X) POLYVINYL ALCOHOL | 25322-68-3 | | | 6/138 |
| 1985 (X) ETHYLENE-VINYL ACETATE COPOLYMERS | | 13.000 | 7.000 | |
| 3025 POLYPROPYLENE GLYCOL | 9003-56-9 | | | 6/146 |
| 2035 (X) FLUOROCARBON POLYMERS | 123-91-1 | | 2.000 | 6/239 |
| 3010 POLYETHYLENE GLYCOL | | | | 6/146 |
| 1656 (X) EPOXY RESINS | 123-91-1 | | | 6/153 |
| 5 (X) ABS | 110-91-8 | 14.000 | 5.000 | |
| 1560 DIOXANE | | | | 6/37 |
| 3000 POLYBUTENES | 71-55-6 | | | 6/235 |
| 1560 DIOXANE | | | | 6/239 |
| 2700 MORPHOLINE | 28985-65-9 | | | |
| 999 (X) COUMARONE-INDENE RESINS | 108-46-3 | 3.000 | 15.000 | 6/23 |
| 3012 (X) POLYIMIDES | | 524.000 | 38.000 | |
| 3395 (P) 1,1,1-TRICHLOROETHANE | 96-23-1 | | | 6/283 |
| | | | | 6/290 |
| 3000 POLYBUTENES | | | | 6/290 |
| 2998 (X) POLYBENZIMIDAZOLES | | | | 6/290 |
| 3150 RESORCINOL | 56-81-5 | | | 6/292 |
| 3040 (X) POLYVINYL ACETATE AND COPOLYMERS | | | | 6/318 |
| 1230 DICHLOROHYDRIN | | | | 6/295 |
| | | | | 6/319 |
| 2090 GLYCEROL (NATURAL + SYNTHETIC) | 26454-73-3 | | | 6/292 |
| | 9004-62-0 | | | 6/283 |
| 2091 GLYCEROL DICHLOROHYDRIN | | | | |
| 2217 (P)(X) HYDROXYETHYL CELLULOSE | 79-06-1 | | | 6/34 |
| 240 AMYL ACETATES | | | | 6/374 |
| 130 ACRYLAMIDE | | | | |

PRODUCING PLANTS

3330 TETRAHYDROPHTHALIC ANHYDRIDE

3135 DENKA CHEM. CORP.
HOUSTON
HARRIS — TX 77017
BUFFALO - SAN JACINTO — 216 — 12040104

4210 EXXON CORP.
BAYWAY
UNION — NJ 07202
SANDY HOOK-STATEN ISLAND — 43 — 2830104

2395 (X) ISOPROPYL ETHER

383 EASTMAN ORGANIC CHEMS
ROCHESTER
MONROE — NY 14613
LOWER GENESEE — 160 — 4130003

4190 EXXON CORP.
BATON ROUGE
EAST BATON ROUGE — LA 70821
AMITE — 105 — 8070202

Figure 4.1 Chemical Use Report (S-CUBED Version)

Step 3 Load the OCPDB on the EPA/NIH CIS.

Step 4 Write and debug CIS DMS software to produce standard reports from the OCPDB implemented on the EPA/NIH CIS.

Step 5 Write user documentation based on the implementation of the OCDPB to the EPA/NIH CIS.

## 4.4 OCPDB UPDATE PROCEDURE DEVELOPMENT

Procedures were developed during this project to update the OCPDB through a batch update program (UPDATE) for general purpose updating, or through an interactive editor (EDIT) for updating processes and uses. For batch updating, two programs were written to facilitate general batch updates to the OCPDB using precoded forms. These programs are:

- PREDIT
- UPDATE

The PREDIT program accepts input cards, checks for the validity of the change code, and rejects any cards found in error. This program also sorts the input data for efficient inclusion later into the OCPDB. The second program, UPDATE, makes final adjustments to the entries within the OCPDB. Using a comprehensive set of error messages pertaining to invalid data punched in the card deck, UPDATE also detects and rejects erroneous update cards. PREDIT and UPDATE program procedures are repeated as necessary until a clean and complete file of sorted output is obtained.

For interactive editing, a special purpose editor (EDIT) has been created as a tool to facilitate data base modifications of process and use data. This editor is a menu driven, interactive interrogation of the OCPDB. Althrough interactive editing can be performed using System 2000 natural language commands, the procedure is tedious due to the rigid format and excessive key stroke requirements of System 2000. Through the EDIT program, character manipulations are more easily made as the operator is queried in menu fashion and lead to the exact set of information that needs modification. Using this interactive mode, the operator is immediately notified of changes through the printing of changes just made. Therefore, the incidence of errors due to improper code selection, unknown or duplicate set selection, or invalid input data is virturally eliminated.

## 5.0 OCPDB DATA DESCRIPTION

To illustrate the content of the OCPDB, excerpts from selected Product Data Reports (PDR) are presented in this section. The PDR, which is one of eleven standard reports available in the OCPDB program library, presents all the data contained in the OCPDB. Data contained in the PDR is presented according to the five following categories:

- Chemical Data
- Economic Data
- Use Data
- Product Process Data
- Chemical Producer Data

Each component of data, which is briefly discussed below, is identified by a unique number (referred to by X ). This reference number identifies each component of data on the PDR as shown in Figures 5.1 and 5.2.

### Chemical Data

1 Chemical Identification Number - OCPDB chemicals are assigned a unique identification number through which all chemical related data are linked to the specific chemical. ID numbers are assigned according to the alphabetical sequence of chemical names.

2 Priority Pollutant Flag - A "P" precedes those chemicals which are priority pollutants (see Figure 5.2).

3 New in OCPDB Flag - Chemicals added to the original (1976) OCPDB are preceded with the symbol "X" (see Figure 5.2).

4 Chemical Abstract Service (CAS) Registry Number - This widely used reference number identifies chemicals numerically and allows easy reference to the chemical literature. A mechanism for cross referencing information with other data bases in the EPA/NIH CIS system is also possible with the CAS number.

5 Wiswesser Line Notation (WLN) Code - This line formula chemical notation describes the structural formula of a compound in a series of letters and numbers. This system is especially useful for concise designation of complex organic chemical structures. WLN provides a mechanism for computer searching the OCPDB by functional groups, enabling automated retrieval of chemicals by structure.

ORGANIC CHEMICAL PRODUCERS DATA BASE

PRODUCT DATA REPORT

[1]

70 ACETIC ACID

CAS REGISTRY NUMBER 64197 —[4]
WISWESSER LINE NOTATION: QV1 —[5]
NIOSH NUMBER AF12250 —[6]

SYNONYMS —[7]

ETHANOIC ACID
ETHYLIC ACID
GLACIAL ACETIC ACID
METHANECARBOXYLIC ACID
VINEGAR ACID

ECONOMIC DATA

| YEAR | VOLUME (MMLBS/YR) [8] | SALES (MM$/YR) [9] | UNIT COST ($/LB) [10] |
|---|---|---|---|
| 81 | | | .245 |
| 80 | 2816.997 | | |
| 75 | | 66.000 | |
| 78 | 2800.000 | | |
| 79 | | 92.548 | .190 |
| 77 | 2580.000 | | |

USES

(FOR DERIVATION OF CHEMICALS AND ALLIED PRODUCTS)

| | | AMOUNT (MMLBS/YR) [13] | % DOM. [14] | IPPEU [15] | SIC [16] |
|---|---|---|---|---|---|
| LAUNDRY SOAP | DETERGENT | | | | 2841 |
| RUBBER | ELASTOMER, VULCANIZABLE | | | | 2822 |
| TEREPHTHALIC ACID | INDUSTRIAL ORGANIC CHEMICAL N.E.C. | | | 6/362 | 2869 |
| ACETIC ESTERS | INDUSTRIAL ORGANIC CHEMICAL N.E.C. | 320.000 | 12.000 | 6/101 | 2869 |
| CELLULOSE ACETATE | PLASTIC/RESIN | 600.000 | 23.000 | 6/102 | 2821 |
| CHLOROACETIC ACID | INDUSTRIAL ORGANIC CHEMICAL N.E.C. | 66.000 | 2.000 | 6/104 | 2869 |
| DIMETHYL PHTHALATE | INDUSTRIAL ORGANIC CHEMICAL N.E.C. | | | 6/362 | 2869 |
| VINYL ACETATE | INDUSTRIAL ORGANIC CHEMICAL N.E.C. | 1100.000 | 40.000 | 6/95 | 2869 |

[11] [12]

Figure 5.1 Product Data Report for Acetic Acid

ORGANIC CHEMICAL PRODUCERS DATA BASE

PRODUCT DATA REPORT

USES

(FOR OTHER COMMERCIAL/INDUSTRIAL APPLICATIONS)

| [12] | | [13] | [14] | [16] |
|---|---|---|---|---|
| | | AMOUNT (MMLBS/YR) | % DOM. | SIC |
| TEXTILE, MILL PRODUCT | | 80.000 | | 2200 |
| FOOD PRODUCT | | | | 2000 |
| LEATHER PRODUCT | PRESERVATIVE [17] | | | 3100 |
| | TANNING | | | |

PROCESS DESCRIPTION

[18]

51 LIQUID PHASE OXIDATION OF N-BUTANE
IPPEU 6/227 [19]

| REACTION COMPONENTS [20] | [21] OCPDB # | [22] ICPDB # | [23] INDUSTRIAL ORIGIN | [24] SIC |
|---|---|---|---|---|
| N-BUTANE | | | PETROLEUM PRODUCT REFINED | 2911 |
| OXYGEN | | 2130 | INDUSTRIAL GAS | 2813 |

OTHER PROCESS MATERIAL

COBALT ACETATE AS A CATALYST [25]

LIQUID N-BUTANE AND COMPRESSED AIR ARE FED INTO A LIQUID PHASE REACTOR CONTAINING A TRANSITION-METAL ACETATE CATALYST, USUALLY COBALT ACETATE, AND MAINTAINED AT 150-225 C AND 5.5 MPA (54.5 ATM). THE REACTION PRODUCT IS COOLED AND PHASE-SEPARATED. CONVENTIONAL DISTILLATION IS USED TO SEPARATE THE CRUDE ACETIC ACID FROM LOW-BOILING ORGANICS. CRUDE ACETIC ACID IS PURIFIED TO GLACIAL ACETIC ACID BY AZEOTROPIC DISTILLATION. [26]

PRODUCING PLANTS

| | | | | |
|---|---|---|---|---|
| [28] 1990 | CELANESE CORP. [27] | | | |
| | PAMPA [29] | [30] TX | 79065 [31] | 550.000 MMLBS./YR. [35] |
| | GRAY [32] | | 211 [34] | |
| | LOWER MIDDLE CANADIAN [33] | | 11090106 | |
| 11010 | UNION CARBIDE CORP. | | | |
| | BROWNSVILLE | TX | 78520 | 600.000 MMLBS./YR. |
| | CAMERON | | 213 | |
| | SOUTH LAGUNA MADRE | | 12110208 | |

Figure 5.1 Product Data Report for Acetic Acid (Continued)

ORGANIC CHEMICAL PRODUCERS DATA BASE

PRODUCT DATA REPORT

2 3

405 (P)(X) BENZIDINE

CAS REGISTRY NUMBER 92875
WISWESSER LINE NOTATION: ZR DR DZ
NIOSH NUMBER DC96250

SYNONYMS

4,4'-BIPHENYLDIAMINE
4,4'-DIAMINOBIPHENYL
4,4'-DIAMINODIPHENYL
4,4'-DIPHENYLENEDIAMINE
BIPHENYL, 4,4'-DIAMINO-
C.I. AZOIC DIAZO COMPONENT 112
FA CORINTH BASE B
P-DIAMINODIPHENYL

ECONOMIC DATA

| YEAR | VOLUME (MMLBS/YR) | SALES (MM$/YR) | UNIT COST ($/LB) |
|---|---|---|---|
| 81 | | | 3.900 |
| 75 | .001 | | |

USES (FOR DERIVATION OF CHEMICALS AND ALLIED PRODUCTS)

| | | AMOUNT (MMLBS/YR) | % DOM. | IPPEU | SIC |
|---|---|---|---|---|---|
| AZO DYES | DYE/PIGMENT | | | | 2865 |
| SULFUR DYES | DYE/PIGMENT | | | | 2865 |
| RUBBER COMPOUNDS | ELASTOMER, VULCANIZABLE | | | | 2822 |
| 12 | AS STIFFENING AGENT | | | | |

USES (FOR OTHER COMMERCIAL/INDUSTRIAL APPLICATIONS)

| | | AMOUNT (MMLBS/YR) | % DOM. | SIC |
|---|---|---|---|---|
| TESTING & RESEARCH SERVICE | LABORATORY REAGENT | | | 7300 |

PROCESS DESCRIPTION

51 REDUCTION OF NITROBENZENE

Figure 5.2 Product Data Report for Benzidine

6 NIOSH Registry Number - NIOSH toxicity reference numbers consist of two alphabetical characters followed by five numerical characters.

7 Synonyms - Chemical nomenclature, system names, trade names, and commercial names for chemicals in the OCPDB.

Economic Data

8 Annual Production Volume - Domestic production only. (MMLBS/YR - Millions of pounds per year)

9 Annual Sales (MM$/YR - Millions of dollars per year)

10 Unit Cost ($/LB - Dollars per pound)

Use Data

11 Chemical or Allied Product - Chemicals, chemical preparations or allied products presented in this column are derived directly from the title chemical.

12 Use Description (Standard Nomenclature) - Use descriptions given in this column are taken from the list of standardized nomenclature presented in Table 5.1. In some cases, the standard nomenclature is supplemented with an additional, nonstandardized descriptor, such as "as stiffening agent" presented in Figure 5.2.

13 Amount - The annual amount (pounds/year) of a chemical used in a specific application.

14 Percent Domestic Use - The percentage of a chemical's domestic production used in a particular application.

15 IPPEU Reference Number - This number refers to a process description presented in the "Industrial Process Profiles for Environmental Use" (IPPEU). These processes utilize the title chemical to produce the chemical listed as a use.

16 SIC Code (four integer) - Standard Industrial Classification (SIC) codes serve to standardize the use nomenclature numerically. In this way, standardized use categories can be searched numerically, as well as verbally. This numerical equivalent to the standard nomenclature is presented, along with the standard nomenclature, in Table 5.1.

17 Product Application - A brief (non standardized) description of any direct, commercial/industrial application of the title chemical is presented in this column.

## Table 5.1

## STANDARD USE NOMENCLATURE

| Nomenclature | SIC |
|---|---|
| Agricultural Service | 0700 |
| Forest Product | 0800 |
| Mining, Metal | 1000 |
| Mining, Anthracite | 1100 |
| Mining, Bituminous Coal | 1200 |
| Extraction, Oil and Gas | 1300 |
| Minerals | 1400 |
| Construction | 1500 |
| Food/Kindred Product | 2000 |
| Tobacco Product | 2100 |
| Textile, Mill Product | 2200 |
| Textile, Apparel/Furnishing | 2300 |
| Lumber/Wood Product | 2400 |
| Furniture/Fixture | 2500 |
| Paper/Allied Product | 2600 |
| Printing/Publishing | 2700 |
| Alkali | 2812 |
| Chlorine | 2812 |
| Industrial Gas | 2813 |
| Inorganic Pigment | 2816 |
| Inorganic Acid | 2819 |
| Catalytic Preparation | 2819 |
| Inorganic Chemical N.E.C. | 2819 |
| Plastic/Resin | 2821 |
| Elastomer, Nonvulcanizable | 2821 |
| Elastomer, Vulcanizable | 2822 |
| Fiber, Cellulosic | 2823 |
| Fiber, Noncellulosic | 2824 |
| Biological Product | 2831 |
| Medicinal Chemical | 2833 |
| Medicinal Product, Botanical | 2833 |
| Medicinal Product, N.E.C. | 2833 |
| Pharmaceutical Preparation | 2834 |
| Detergent | 2841 |
| Glycerin | 2841 |
| Bleach | 2842 |
| Sanitation Product | 2842 |
| Specialty Cleaning Product | 2842 |
| Polishing Preparation | 2842 |
| Surface Active Preparation | 2843 |
| Finishing Agent | 2843 |
| Toiletry | 2844 |
| Paint Product | 2851 |
| Gum/Wood Chemical | 2861 |
| Cyclic Intermediate | 2865 |
| Cyclic Crude | 2865 |
| Dye/Pigment | 2865 |
| Industrial Organic Chemical N.E.C. | 2869 |
| Synthetic Organic Chemical N.E.C. | 2869 |
| Pesticide Chemical | 2869 |
| Miscellaneous Chemical N.E.C. | 2869 |
| Fertilizer, Nitrogenous | 2873 |

| Nomenclature | SIC |
|---|---|
| Fertilizer, Phosphatic | 2874 |
| Fertilizer, Mixed | 2875 |
| Agricultural Chemical N.E.C. | 2879 |
| Pesticide Preparation | 2879 |
| Adhesive/Sealant | 2891 |
| Explosive | 2892 |
| Printing Ink | 2893 |
| Carbon Black | 2895 |
| Chemical Preparation N.E.C. | 2899 |
| Essential Oil | 2899 |
| Pyrotechnic | 2899 |
| Gelatin | 2899 |
| Petroleum Product, Refined | 2911 |
| Paving Material | 2951 |
| Asphalt Felt/Coating | 2953 |
| Lubricating Preparation | 2992 |
| Petroleum Product N.E.C. | 2999 |
| Coal Product N.E.C. | 2999 |
| Rubber, Tire/Inner Tube | 3011 |
| Rubber/Plastic, Footware | 3021 |
| Rubber, Reclaimed | 3031 |
| Rubber/Plastic, Hose | 3041 |
| Rubber/Plastic, Tubing | 3041 |
| Rubber Product N.E.C. | 3069 |
| Plastic Product N.E.C. | 3079 |
| Leather Product | 3100 |
| Glass Product | 3200 |
| Clay Product | 3200 |
| Stone Product | 3200 |
| Concrete Product | 3200 |
| Gypsum Product | 3200 |
| Asbestos Product | 3200 |
| Plaster Product | 3200 |
| Abrasive/Friction Product | 3200 |
| Metal Product, Primary | 3300 |
| Metal Product, Fabricated | 3400 |
| Machinery | 3500 |
| Equipment, Electric | 3600 |
| Equipment, Transportation | 3700 |
| Instrumentation/Supply, Precision | 3800 |
| Instrumentation/Supply, Medical | 3800 |
| Instrumentation/Supply, Optical | 3800 |
| Instrumentation/Supply, Photographic | 3800 |
| Manufacturing N.E.C. | 3900 |
| Sanitary Service | 4900 |
| Natural Gas Service | 4900 |
| Wholesale Trade | 5100 |
| Food Consumption Establishment | 5800 |
| Personal Cleaning and Laundry Service | 7200 |
| Cleaning and Maintenance Service | 7300 |
| Testing and Research Service | 7300 |
| Health Service | 8000 |

Production Process Data

[18] Process Description (Brief) - This process description is a short, one-line summary of industrial processing methods. Process description code numbers are assigned to each process, beginning with "51". If a process description code is "0", information is not available to specify the process.

[19] IPPEU Reference Number (Product Process) - This number refers to process descriptions presented in the IPPEU. Such processes are utilized in the production of the title chemical.

[20] Reaction Components - Chemical components of the industrial process used to derive the title chemical.

[21] OCPDB Number - Data base identification number of the reaction component if it is one of the OCPDB chemicals.

[22] ICPDB Number - Data base identification number of the reaction component if it is one of the Inorganic Chemical Producers Data Base (ICPDB) chemicals.

[23] Industrial Origin - The standardized nomenclature presented in Table 5.1 for use descriptions is also used to indicate the industrial origin of reaction components. In this way, a single system of standardized nomenclature can be used to describe the origin and fate of the title chemical.

[24] SIC Code - The Standard Industrial Classification code that corresponds to the industrial origin (standard nomenclature) of each reaction component is given in this column as defined in Table 5.1.

[25] Other Process Material - Other materials (including chemicals) utilized in an ancillary manner for the production of the title chemical, (i.e., catalysts, washes, etc.).

[26] Process Description (Extended) - This process description gives a more detailed explanation of the brief description given in [18]. This narative gives the user more information on the major steps and conditions of the process.

Chemical Producer Data

[27] Chemical Producer Name

[28] Chemical Producer Identification Number - This ID is a unique five digit number assigned to each chemical producer. All producer-related data are linked to this number.

29 Chemical Producer City Location

30 Chemical Producer State Location

31 Chemical Producer Zip Code

32 Chemical Producer County Location

33 Chemical Producer River Basin - These two entries give the name and river basin code of the river basin in which the chemical producer's plant is located.

34 Air Quality Control Region (AQCR) Code

35 Chemical Producer Process Capacity - This figure gives the capacity of a producer to manufacture a chemical for a specific process. (MMLBS/YR - Millions of pounds per year)

## 6.0 CONTENT EXPANSION AND UPDATE

The selection of data sources used to expand and update the OCPDB was based on an investigation to determine the most readily available information, exhibiting the best accuracy, reliablity and completeness with respect to the wide variety of chemicals in the OCPDB. The most up to date versions of these data sources were assessed. The data sources selected to perform this expansion and update were used to supplement incomplete information and construct new data.

This section presents a discussion of work performed to expand and update chemical, economic, production process, and producer data. The documentation of data sources used should be referred to when developing an appropriate maintenance protocol.

### 6.1 CHEMICAL DATA

Chemical Use descriptions and amounts (lbs/yr) were updated using the Merck Index, (21) and "Chemical Profiles" from the Chemical Marketing Reporter (CMR) (1). Use descriptions were revised only for those chemicals presented in the CMR "Chemical Profiles" during 1980 and 1981. For chemicals not profiled in the CMR during these years, missing information only was supplemented with data occurring in the Merck Index and in CMR publications of 1977 through 1978.

Using this methodology, 94 OCPDB chemicals were updated quantitatively; old information was replaced with new information. In most of these 94 cases, the "amount" and "percent domestic" components (see Figure 5.1, 15 ) were reconstructed.

"Use/IPPEU" reference numbers were verified, updated, and expanded for all chemicals using the following chapters of Industrial Process Profiles for Environmental Use (IPPEU).

- Chapter 5 - Basic Petrochemicals Industry (6)
- Chapter 6 - Industrial Organic Chemicals Industry (7)
- Chapter 8 - Pesticides Industry (8)
- Chapter 10 - Plastics and Resins Industry (9)
- Chapter 11 - The Synthetic Fiber Industry (10)
- Chapter 13 - Plasticizers Industry (11)
- Chapter 16 - The Fluorocarbon - Hydrogen Fluoride Industry (12)

- Chapter 22 - The Phosphate Rock and Basic Fertilizer Materials Industry (13)

Each of the use descriptions in the OCPDB were assigned a four digit Standard Industrial Classification (SIC) code (exports, other, and miscellaneous were not assigned SIC codes). In addition, a standardized nomenclature was developed to supplement each use description. This operation was performed in coordination with modifications to the OCPDB schema to allow for the inclusion of these descriptions, and with research to differentiate "uses" for the derivation of other chemicals from those "uses" for direct commercial/industrial applications. The development of standard nomenclature was based on the definition of major industrial categories given by the SIC Manual (18). These major categories are shown in Table 5.1.

In developing a working standardization of the use verbage, the diverse nomenclature of the original use descriptions was supplemented with a more generalized nomenclature that is more suited to a computer data base search. During the process of supplementing the original list of uses with a more generalized nomenclature, research was conducted to assure that there were no technical contradictions in terms.

## 6.2 ECONOMIC DATA

The three components of economic data in the OCPDB - production volume, sales and unit cost - were updated with the CMR (1) and the U.S. Trade Commission Publication of "Synthetic Organic Chemicals" (17). Using these two publications, a total of 141 OCPDB chemicals were updated for production volume. Production volume figures for 1980 were made available in tables presented in the more recent editions of the CMR. Production volume figures for 1979 were taken from "Synthetic Organic Chemicals" for those chemicals not presented in the 1980 CMR tables.

Sales figures for 1979 were updated for 141 chemicals using the Synthetic Organic Chemicals document (17). Unit cost data for 297 OCPDB chemicals were updated using the Chemical Price Table in the CMR for the years of 1979 and 1981.

## 6.3 PRODUCTION PROCESS DATA

Production process data were verified, updated and expanded using the Merck Index (21), chapters of the IPPEU series (6-13) and the Condensed Chemical Dictionary (20). These data sources were used to derive short process descriptions (less than 59 characters), a list of reaction components and other process related materials for each process, as described in the literature. During this operation, 228 processes were added to the data base. Additionally, long process

descriptons (length unlimited) were added to the OCPDB for 574 processes presented in the IPPEU. The IPPEU reference number (previously implicit to Chapter 6 of the IPPEU) was modified to include chapter number, thus enabling the referencing of processes from other IPPEU chapters.

## 6.4 PRODUCER DATA

Chemical producer data were updated with information presented in the CMR - "Chemical Profiles" (1). In this effort, data were updated for chemicals profiled in CMR's published during 1980 and 1981. For OCPDB chemicals profiled in the CMR from 1977 through 1979, CMR data were used only when such information was absent in the data base. Ninety-four of the 605 chemicals contained in the OCPDB were updated for producer data in this fashion.

River basin codes were updated using Hydrologic Unit Maps (14). Boundary descriptions and names of regions and subregions relevant to hydrologic unit codes were obtained from the EPA Office of Water Regulations and Standards (5). Using this information, river basin names were filled in for producers represented only by river basin code. Since the update of river basin codes occurred prior to the inclusion of 22 producers previously absent from the OCPDB, river basin codes and names were not assigned to these additional producers.

The producer information update included other locational identifiers such as county, zip code and Air Quality Control Region (AQCR). AQCR codes were assigned to producers using information taken from the U.S. EPA Publication, Federal Air Quality Control Regions (4) and 40 CFR, Part 81, Appendix A (15). County names for producers were updated with the Rand McNally Commercial And Busines Atlas (3). Zip codes were assigned using the U.S. Zip Code Marketing Business Map Atlas (2) and the U.S. Postal Service National Zip And Post Office Directory (19), in conjunction with various road maps and telephone directories.

## 6.5 QUALITY ASSURANCE

Quality assurance (Q.A.) for the verification, update and expansion of the content of the OCPDB was performed on an ongoing basis. Manual as well as automated procedures were used to assure the proper and accurate incorporation of changes and additions to all specific data components. In addition, Q.A. measures were taken to confirm the overall quality of the OCPDB at the conclusion of the update.

OCPDB data were updated and expanded using keypunch coding forms. After a sufficiently large volume of data were keypunched, a computer update was performed to incorporate changes and additions of data. A pre-edit program was developed to check each card for valid

change code, valid update field length, and other obvious errors, such as the occurrence of alphanumeric data in numeric fields. Computer rejection of update cards appeared in error statements such as in the example presented in Figure 6.1. A subsequent verification was performed by checking updated Product Data Reports (PDR) against source materials and against information summary sheets in cases where direct verification was not practical. PDR's were generated periodically for this purpose. Finally, an overall page by page PDR inspection of the updated and expanded OCPDB was performed near the end of the update operation. This general check served to confirm the overall quality of the final output.

```
@COPY,I OCPDB*UPDATES.CYCLE23/PREDIT,10.
FURPUR 28R1 U1 E35 S74T11 07/01/81 16:10:32

**FOLLOWING UPDATE CARD REJECTED:
     350 1070ACETONE
**ILLEGAL END USE CHANGE SEQUENCE                                    **

**FOLLOWING UPDATE CARD REJECTED:
     350 2060CHEMICALS AND PHARMACEUTICLES
**ENDUSE DOES NOT EXIST FOR CHEMICAL-ID                              **

**FOLLOWING UPDATE CARD REJECTED:
     355 2060          40.                                          **
**ENDUSE DOES NOT EXIST FOR CHEMICAL-ID

**FOLLOWING UPDATE CARD REJECTED:
     350 2450METHYL ISOBUTYL KETON                                   **
**ENDUSE DOES NOT EXIST FOR CHEMICAL-ID

**FOLLOWING UPDATE CARD REJECTED:
     355 2450                    2869                               **
**ENDUSE DOES NOT EXIST FOR CHEMICAL-ID

**FOLLOWING UPDATE CARD REJECTED:
     400 290551ALKALINE POLYMER                                      **
**PROCESS NUMBER NOT FOUND IN OCPDB

**FOLLOWING UPDATE CARD REJECTED:
     410 290551FORMALDEHYDE-L,G
**PROCESS NUMBER NOT FOUND IN OCPDB                                  **

**FOLLOWING UPDATE CARD REJECTED:
     410 290551LOW MOLECULAR WEIGHT PHENOLIC POLYMER-L
**PROCESS NUMBER NOT FOUND IN OCPDB                                  **

**FOLLOWING UPDATE CARD REJECTED
     410 290551METHANOL
**PROCESS NUMBER NOT FOUND IN OCPDB                                  **
```

Figure 6.1 Error Statement

## 7.0 EPA REPORT REQUESTS

At the request of IERL-CI, a total of ten standard OCPDB reports were generated for six requestors during the course of this work assignment. Below are listed the recipients of the OCPDB reports and specific OCPDB reports received.

- Brown and Caldwell, Inc.
  - Product Data Report - Nationwide

- Montefiore Hospital and Medical Center
  - Product Data Report - Nationwide

- East Bay Municipal Utility District
  - Product Data Report - Nationwide
  - Chemical Use Report (Original Version)

- GAI Consultants, Inc.
  - Product Data Report - Nationwide

- Energy and Environmental Analysis, Inc.
  - Product Data Report - Nationwide
  - Plants and Product Slates
  - Product Slate
  - Chemicals and Production Sites - Nationwide

- Los Angeles County Sanitation District
  - Product Data Report - Nationwide

# 8.0 OCPDB STANDARD REPORTS

A knowledgeable user can employ System 2000 Natural Language commands to retrieve pertinent data from the OCPDB. However, the System 2000 Natural Language commands are limited in their capability to perform computations and to do special output formatting. Therefore, an extensive program library has been developed for the OCPDB using the System 2000 Procedural Language Extension (PLEX) methodology.

Currently the OCPDB program library is comprised of eleven programs, each having a distinct purpose. Standard reports produced by the programs in the OCPDB program library are described in this section. The titles of these standard reports are listed in Table 8.1.

## 8.1 PLANTS AND PRODUCT SLATES

The Plants and Product Slates report lists chemicals manufactured by selected chemical producers. This report identifies each chemical producer by listing the producer's OCPDB identification number, company name and city and state where the producer is located. For each chemical manufactured by a listed producer, this report outputs the chemical's OCPDB chemical identification number, chemical name, process identification number, short process description, process capacity, and Industrial Process Profiles for Environmental Use (IPPEU) reference number. The major sort (for output purposes) of the Plants and Product Slates report is by OCPDB producer identification number. In addition, a minor sort is performed for the chemical identification number of each chemical product. Figure 8.1 presents an excerpt from the Plants and Product Slates report.

## 8.2 PLANTS AND PRODUCT SLATES (BY EPA REGION)

The Plants and Product Slates (by EPA Region) report lists all chemicals manufactured by each producer by EPA region and state. The report identifies each producer, by printing the producer's OCPDB identification number, company name, and the city and state where the producer is located. For each chemical produced, this report lists the chemical's OCPDB identification number, chemical name, process identification number, short process description, process capacity and IPPEU reference numbers. The major sort, for output purposes, of the Plants and Product Slates (by EPA Region) report is by EPA region code. An intermediate sort by state name, producer's plant location, and producer OCPDB identification number is then performed. Finally, a minor sort for each chemical's OCPDB identification number is performed. Figure 8.2 presents an excerpt from the Plants and Product Slates (by EPA Region) report.

Table 8.1

STANDARD DATA REPORT FORMATS

Description

Plants and Product Slates
Plants and Product Slates (by EPA Region)
Plants and Product Slates (by River Basin)
Product Slate
Chemicals and Production Sites - Nationwide
Chemicals and Proudction Sites - Statewide
Product Data Report - (PDR)
Chemical Producers
Chemical Use Report (Original Version)
Minimum Site Search (Input Required)
Chemical Use Report (S-CUBED Version)

ORGANIC CHEMICAL PRODUCERS DATA BASE

PLANTS AND PRODUCT SLATES

677 AMERICAN HOECHST CORP.
BAY PORT TEXAS

1710 ETHYLBENZENE
0 UNSPECIFIED PROCESS CAPACITY 1080.000 MMLBS.
3007 HIGH DENSITY POLYETHYLENE
0 UNSPECIFIED PROCESS CAPACITY 220.000 MMLBS.
3230 STYRENE
51 DEHYDROGENATION OF ETHYLBENZENE CAPACITY 900.000 MMLBS.
IPPEU 6/3

1787 CALCASIEU CHEMICAL CORP.
LAKE CHARLES LOUISIANA

1830 ETHYLENE GLYCOL
51 HYDRATION OF ETHYLENE OXIDE FROM OXIDATION OF ETHYLENE CAPACITY 180.000 MMLBS.
IPPEU 6/144,6/143
1980 ETHYLENE OXIDE
0 UNSPECIFIED PROCESS CAPACITY 225.000 MMLBS.

1835 CARBOSE CORP.
SOMERSET PENNSYLVANIA

3190 SODIUM CARBOXYMETHYL CELLULOSE
0 UNSPECIFIED PROCESS CAPACITY 8.000 MMLBS.

1985 CELANESE CORP.
CUMBERLAND MARYLAND

820 CELLULOSE ACETATE
0 UNSPECIFIED PROCESS

Figure 8.1 Plants and Product Slates

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ORGANIC CHEMICAL PRODUCERS DATA BASE

PLANTS AND PRODUCT SLATES

REGION 5 - OHIO

| | | | |
|---|---|---|---|
| 3460 | DOW CHEMICAL U.S.A. | IRONTON | |
| | 5 ABS | | CAPACITY |
| | 0 UNSPECIFIED | | 65.000 MMLBS. |
| | 3030 POLYSTYRENE AND COPOLYMERS | | CAPACITY |
| | 0 UNSPECIFIED PROCESS | | 200.000 MMLBS. |
| | 3036 POLYURETHANE RESINS | | |
| | 51 ONE SHOT POLYMERIZATION:ISOCYANATES & POLYHYDROXY COMPOUND | | |
| 3670 | E. I. DU PONT DE NEMOURS & CO., INC. | TOLEDO | |
| | 189 ALKYDS AND UNSATURATED POLYESTER RESINS | | |
| | 0 UNSPECIFIED PROCESS | | |
| | 2040 FORMALDEHYDE | | CAPACITY |
| | 51 OXIDATION OF METHANOL | | 270.000 MMLBS. |
| | IPPEU 6/202 | | |
| | 3036 POLYURETHANE RESINS | | |
| | 53 SURFACE COATING RESINS | | |
| 3890 | E. I. DU PONT DE NEMOURS & CO., INC. | CIRCLEVILLE | |
| | 3005 POLYETHYLENE TEREPHTHALATE | | CAPACITY |
| | 52 FILM | | 65.000 MMLBS. |
| | 3012 POLYIMIDES | | |
| | 0 UNSPECIFIED PROCESS | | |
| 4050 | EMERY INDUST., INC. | CINCINNATI | |
| | 2090 GLYCEROL (NATURAL + SYNTHETIC) | | |
| | 51 FROM REFINED NATURAL GLYCEROL | | |
| | 2996 POLYAMIDES | | CAPACITY |
| | 51 CYCLOADDITION OF MONOBASIC FATTY ACIDS | | 10.000 MMLBS. |
| 4310 | FERRO CORP. | TOLEDO | |
| | 937 4-CHLORO-3-METHYL PHENOL | | |
| | 0 UNSPECIFIED PROCESS | | |
| 4530 | FOY-JOHNSTON, INC. | CINCINNATI | |
| | 189 ALKYDS AND UNSATURATED POLYESTER RESINS | | |
| | 0 UNSPECIFIED PROCESS | | |
| | 3040 POLYVINYL ACETATE AND COPOLYMERS | | |
| | 0 UNSPECIFIED PROCESS | | |

Figure 8.2 Plants and Product Slates (by EPA Region)

## 8.3 PLANTS AND PRODUCT SLATES (BY RIVER BASIN)

The Plants and Product Slates (by River Basin) report lists all chemicals manufactured by each producer by river basin code. This report identifies each chemical producer by printing the producer's OCPDB identification number, company name, city and state where the producer is located. For each chemical produced, the report lists the chemical's OCPDB identification number, chemical name, process identification number, short process description, process capacity and IPPEU reference numbers. The major sort, for output purposes, of the Plants and Product Slates (by River Basin) report is by river basin code. An intermediate sort for each producer's OCPDB number and a minor sort for each chemical's OCPDB identification number is also performed. Figure 8.3 presents an excerpt from the Plants and Product Slates (by River Basin) report.

## 8.4 PRODUCT SLATE

The Product Slate report lists the chemicals produced by each chemical producer in the OCPDB. The report identifies each chemical producer in the OCPDB by printing the producer's OCPDB identification number, company name, city and state, river basin code and river basin name where the producing plant is located. For each chemical produced the report lists the chemical's OCPDB identification number, chemical name, process identification number, short process description, and process capacity. The major sort, for output purposes, is by the producer OCPDB identification number. An intermediate sort is performed by chemical OCPDB identification number for each chemical produced. Finally, a minor sort by process identification number is performed by the report software. Figure 8.4 presents an excerpt from the Product Slate report.

## 8.5 CHEMICALS AND PRODUCTION SITES - NATIONWIDE

The Chemicals and Production Sites - Nationwide report lists process and producer information for each chemical in the OCPDB. The report identifies each chemical by printing the chemical's OCPDB identification number and chemical name. Process information consists of process identification number, short process description and IPPEU reference numbers. Chemical producers using a given process to manufacture a chemical are listed under each process. Each producer is identified by OCPDB identification number, river basin code and river basin name. For output purposes, the Chemicals and Production Sites - Nationwide report software performs its major sort by OCPDB chemical identification number. Figure 8.5 presents an excerpt from the Chemicals and Production Sites - Nationwide report.

ORGANIC CHEMICAL PRODUCERS DATA BASE

PLANTS AND PRODUCT SLATES
BY RIVER BASIN

2010003 WINOOSKI

6203 JOHNSON FILAMENTS
WILLISTON — VERMONT

2821 NYLON 6
54 MONOFILAMENT
2822 NYLON 66
54 MONOFILAMENT
3005 POLYETHYLENE TEREPHTHALATE
53 FIBERS

CAPACITY
1.000 MMLBS.

11625 E.B. & A.C.WHITING CO.
BURLINGTON — VERMONT

2821 NYLON 6
54 MONOFILAMENT
2822 NYLON 66
54 MONOFILAMENT
2826 NYLON 612
54 MONOFILAMENT

2020003 HUDSON-HOOSIC

1340 BENDIX CORP., THE
GREEN ISLAND — NEW YORK

2905 PHENOLIC RESINS
0 UNSPECIFIED PROCESS
3501 UREA FORMALDEHYDE RESIN
51 CONDENSATION OF UREA + FORMALDEHYDE

5680 HERCULES INC.
GLENS FALLS — NEW YORK

2190 HYDROGEN CYANIDE
0 UNSPECIFIED PROCESS

CAPACITY
3.000 MMLBS.

Figure 8.3 Plants and Product Slates (by River Basin)

ORGANIC CHEMICAL PRODUCERS DATA BASE
PRODUCT SLATE

10 A & E PLASTIK PAK CO., INC.
CITY OF INDUSTRY CA

18070106 SAN GABRIEL

3030 POLYSTYRENE AND COPOLYMERS

0 UNSPECIFIED PROCESS 50.000 MMLBS.

30 ABBOTT LABORATORIES
WICHITA KS

11030013 MIDDLE ARKANSAS-SLATE

1160 CYCLOHEXYLAMINE

0 UNSPECIFIED PROCESS 10.000 MMLBS.

1280 DICYCLOHEXYLAMINE

0 UNSPECIFIED PROCESS

40 ARSYNCO, INC.
CARLSTADT NJ

2030103 HACKENSACK - PASSAIC

PARENT COMPANY(IES)

ACETO CHEM. CO., INC.

164 ACRYLATE ESTERS

0 UNSPECIFIED

220 AMINOBENZOIC ACID (M,P)

0 UNSPECIFIED PROCESS

370 BENZAMIDE

0 UNSPECIFIED PROCESS

460 BENZOPHENONE

0 UNSPECIFIED PROCESS

510 BENZYLAMINE

51 AMMONOLYSIS OF BENZYL CHLORIDE

Figure 8.4 Product Slate

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PRODUCTION SITES--NATIONWIDE

210 ALLYL CHLORIDE

51 CLORINATION OF PROPYLENE
IPPEU 6/315

PRODUCING PLANTS

3400 DOW CHEMICAL U.S.A.
FREEPORT TEXAS

RIVER BASIN: 12040205 AUSTIN - OYSTER

3590 E. I. DU PONT DE NEMOURS & CO., INC.
LAPLACE LOUISIANA

RIVER BASIN: 8070204 LAKE MAUREPAS

3730 E. I. DU PONT DE NEMOURS & CO., INC.
VICTORIA TEXAS

RIVER BASIN: 12100204 LOWER GUADALUPE

9670 SHELL CHEM. CO.
DEER PARK TEXAS

RIVER BASIN: 12040104 BUFFALO -- SAN JACINTO

9660 SHELL CHEM. CO.
NORCO LOUISIANA

RIVER BASIN: 8090203 EASTERN LOUISIANA COASTAL



Figure 8.5 Chemical and Production Site - Nationwide

## 8.6 CHEMICALS AND PRODUCTION SITES - STATEWIDE

The Chemicals and Production Sites - Statewide report lists process and producer information for each chemical in the OCPDB. Each chemical is identified by its OCPDB identification number and chemical name. Process information consists of process identification number, short process description, and IPPEU reference numbers. Listed under each process are the appropriate chemical producers. Each producer is identified by its OCPDB identification number, river basin code and name. For output purposes, the Chemical and Production Sites - Statewide report is sorted for producers by EPA region code. Figure 8.6 presents an excerpt from the Chemicals and Production Sites - Statewide report.

## 8.7 PRODUCT DATA REPORT

The Product Data Report (PDR), which is illustrated in Section 5, presents all the information contained in the OCPDB. For each chemical, the PDR gives the OCPDB identification number, priority pollutant flag, new in data base flag, chemical name, CAS registry number, Wiswesser Line Notation, synonyms, economic data, chemical use data and process information. For each process, information consists of process identification number, short process description, IPPEU reference numbers, reaction components, other process material, long process description and producer information. For each producer, the PDR presents producer name, ID number, city, state, county, zip code, river basin name and river basin code, Air Quality Control Region code, and process capacity for the title chemical.

In addition to the PDR, which lists only those chemicals of interest to the user, three other versions of this standard report are available. These are:

- Product Data Report - Nationwide (PDRN)
- Product Data Report - Statewide
- Product Data Report - Countywide

The PDRN software lists all chemicals in order of their OCPDB identification number. The Product Data Report - Statewide presents the PDR format for those chemicals wherein at least one producer of each listed chemical is located in the state of interest. The Product Data Report - Countywide presents the PDR format for those chemicals in which at least one producer is located in the county of interest.

## 8.8 CHEMICAL PRODUCERS

The Chemical Producers report lists all chemical producers in the OCPDB. The report is a tabular listing of each chemical

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PRODUCTION SITES--STATEWIDE

REGION 5 - OHIO

380 BENZENE

51 PETROLEUM DERIVED

PRODUCING PLANTS

10390 SUN PETROLEUM PRODUCTS CO. 411.000 MMLBS/YR
TOLEDO

RIVER BASIN: 4100009 LOWER MAUMEE

1620 DODECENE

51 POLYMERIZATION OF PROPYLENE
IPPEU 6/264

PRODUCING PLANTS

10390 SUN PETROLEUM PRODUCTS CO. 39.000 MMLBS/YR
TOLEDO

RIVER BASIN: 4100009 LOWER MAUMEE

1656 EPOXY RESINS

0 UNSPECIFIED PROCESS

PRODUCING PLANTS

1820 MORAN PAINT CO.
XENIA

RIVER BASIN: 5090202 LITTLE MIAMI

5940 INMONT CORP.
CINCINNATI

RIVER BASIN: 5090203

Figure 8.6 Chemicals and Production Site - Statewide

producer's OCPDB identification number, company name, and the city and state where the plant is located. The major sort, for output purposes, of the Chemical Producers report software is by the alphabetical order of the produce's name. Appendix B presents a complete listing of the Chemical Producers report.

## 8.9 CHEMICAL USE (ORIGINAL VERSION)

This Chemical Use report lists all chemical use related data for each chemical in the OCPDB. The report identifies each chemical by outputting its identification number, chemical name, CAS registry number and Wiswesser Line Notation. For each use or application, the report lists a short description of the application, the amount of chemical used in the application and the percentage of the chemical's domestic production utilized in that particular application. IPPEU reference numbers and SIC codes are also listed for each application. The major sort, for output purposes, of the Chemical Use software is by chemical identification number. Figure 8.7 presents an excerpt from the Chemical Use report.

## 8.10 MINIMUM SITE SEARCH

The Minimum Site Search report lists producers of a specific group of chemicals. Chemicals in this group are identified in the Minimum Site Search report software by identification number. In the event that an entire group of chemicals is not produced at any one plant, the Minimum Site Search report selects plants producing the largest number of chemicals specified.

The procedure used to develop a minimum site list is an iterative process of elimination. First, a list of plants is generated which produce all the specified chemicals. A single plant producing the greatest number of chemicals on the search list is then located and entered onto the final list of plants. If two or more plants produce the same number of specified chemicals, a site is chosen on the basis of the alphabetical order of the producers' names. Next, chemicals which are in both the search list and in the chosen plant's product slates, are removed from the search list. The search process is then repeated with a reduced list of plants. Eventually, the search list is exhausted, thus giving a list of plants producing progressively smaller groups of the originally specified group of chemicals.

The output of the Minimum Site Search report consists of identification number, company name, and the locations of chemical producers selected by the minimum site search algorithm. A list of chemical identification numbers and chemical names in each producer's product slate is outputted under each chemical producer listed in the report. Figure 8.8 presents an output produced by the Minimum Site Search report software, when instructed to find plants producing the chemicals Nylon 6, 11, 12, 66, 69, and 612 and Rayon.

ORGANIC CHEMICAL PRODUCERS DATA BASE

70 ACETIC ACID

CAS REGISTRY NUMBER 64197
WISWESSER LINE NOTATION: QV1

USES (FOR DERIVATION OF CHEMICALS AND ALLIED PRODUCTS)

| | | AMOUNT (MMLBS/YR) | % DOM. | IPPEU | SIC |
|---|---|---|---|---|---|
| LAUNDRY SOAP | DETERGENT | | | | 2841 |
| RUBBER | ELASTOMER, VULCANIZABLE | | | | 2822 |
| TEREPHTHALIC ACID | INDUSTRIAL ORGANIC CHEMICAL N.E.C. | | | 6/362 | 2869 |
| ACETIC ESTERS | INDUSTRIAL ORGANIC CHEMICAL N.E.C. | 320.000 | 12.000 | 6/101 | 2869 |
| CELLULOSE ACETATE | PLASTIC/RESIN | 600.000 | 23.000 | 6/102 | 2821 |
| CHLOROACETIC ACID | INDUSTRIAL ORGANIC CHEMICAL N.E.C. | 66.000 | 2.000 | 6/104 | 2869 |
| DIMETHYL PHTHALATE | INDUSTRIAL ORGANIC CHEMICAL N.E.C. | | | 6/362 | 2869 |
| VINYL ACETATE | INDUSTRIAL ORGANIC CHEMICAL N.E.C. | 1100.000 | 40.000 | 6/95 | 2869 |

USES (FOR OTHER COMMERCIAL/INDUSTRIAL APPLICATIONS)

| | | AMOUNT (MMLBS/YR) | % DOM. | SIC |
|---|---|---|---|---|
| TEXTILE, MILL PRODUCT | | 80.000 | | 2200 |
| FOOD PRODUCT | PRESERVATIVE | | | 2000 |
| LEATHER PRODUCT | TANNING | | | 3100 |



Figure 8.7 Chemical Use Report (Original Version)

ORGANIC CHEMICAL PRODUCERS DATA BASE

MINIMUM SITE SEARCH


LATEST UPDATE: 820415

| PLANT ID | PLANT NAME | |
|---|---|---|
| 260 | NEWTON FILAMENTS, INC.<br>HOMER | NY |

| CHEMICAL ID | CHEMICAL NAME |
|---|---|
| 2821 | NYLON 6 |
| 2822 | NYLON 66 |
| 2825 | NYLON 12 |
| 2826 | NYLON 612 |
| 2005 | POLYETHYLENE TEREPHTHALATE |


LATEST UPDATE: 820415

| PLANT ID | PLANT NAME | |
|---|---|---|
| 1320 | BELDING CHEM. INDUST.<br>GROSVENORDALE | CT |

| CHEMICAL ID | CHEMICAL NAME |
|---|---|
| 2823 | NYLON 69 |
| 2996 | POLYAMIDES |


LATEST UPDATE: 820415

| PLANT ID | PLANT NAME | |
|---|---|---|
| 240 | AKZONA INC.<br>LOWLAND | TN |

| CHEMICAL ID | CHEMICAL NAME |
|---|---|
| 2821 | NYLON 6 |
| 2005 | POLYETHYLENE TEREPHTHALATE |
| 3145 | RAYON |


LATEST UPDATE: 820415

| PLANT ID | PLANT NAME | |
|---|---|---|
| 8350 | PLATARIL CO.<br>BIRDSBORO | PA |

| CHEMICAL ID | CHEMICAL NAME |
|---|---|
| 2821 | NYLON 6 |
| 2822 | NYLON 66 |
| 2824 | NYLON 11 |
| 2825 | NYLON 12 |

Figure 8.8 Minimum Site Search

## 8.11 CHEMICAL USE (S-CUBED VERSION)

The Chemical Use (S-CUBED Version) report lists chemical related data for each chemical use in OCPDB. For each chemical occurring under a special use description, the report prints the identificaton number, chemical name, CAS number, amount of chemical used in the application, percentage of the chemical's domestic production utilized by the application, IPPEU reference numbers, and a list of chemical producers generating the chemical. The major sorts, for output purposes, of this report are by chemical use descriptions given by the Standard Nomenclature presented in Table 5.1 (Section 5.0). A discussion and example of the Chemical use (S-CUBED Version) report is presented in Section 4.2.

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# APPENDIX A

# OCPDB DEFINITION

## OCPDB DEFINITION

When System 2000 is used to develop a data base, data are collected in categories and an outline structure of these categories is written as shwon in Figure C.1. This structural form of the data is called the data definition or, alternately, the schema.

System 2000 instructional literature addresses the data base structure from the following three perspectives:

- The User
- Procedural Language Extension (PLEX)
- The Natural Language

These terms have the same general meaning but are distinct with regard to the person using them. For example, the structure of data is called the data definition by the person concerned with the data base application (the user). The same structure is referred as the tree definition by the program (PLEX). When the computer code is developed in System 2000 natural language, however, it is referred to as the schema.

Data listed in common categories, but having different values, are called repeating groups or records. In both the PLEX and natural language documentation, data categories are referred to as repeating groups. When the structure is printed by the System 2000 natural language, however, these categories are marked "record".

```
SYSTEM RELEASE NUMBER   2.90
DATA BASE NAME IS OCPDB
DEFINITION NUMBER !
DATA BASE CYCLE   11921
       1*  ENTRY TYPE (INTEGER NUMBER 9)
       2*  ENTRY ID (INTEGER NUMBER 9(5))
   1000*   PORDUCT DESCRIPTION (RECORD)
      1001*  PRODUCT (CHAR X(25) IN 1000)
      1002*  CAS NUMBER (INTEGER NUMBER 9(10) in 1000)
      1003*  NEW IN DB FLAG (CHAR X IN 1000)
      1004*  CONFIDENTIAL PRODUCT FLAG (CHAR X IN 1000)
      1005*  PRIORITY POLLUTANT FLAG (CHAR X in 1000)
      1006*  WISWESSER LINE NOTATION (CHAR X(40) IN 1000)
      1007*  NIOSH NUMBER (NON-KEY CHAR X(8) IN 1000)
      1100*  ANNUAL PRODUCTION DATA (RECORD IN 1000)
        1101*  PRODUCTION YEAR (INTEGER NUMBER 99 IN 1100)
        1102*  PRODUCTION VOLUME (NON-KEY DECIMAL NUMBER 9(5).999
               IN 1100)
        1103*  UNIT COST (NON-KEY DECIAML NUMBER 9(5).999 IN 1100)
        1104*  SALES (NON-KEY MONEY $9(5).999 IN 1100)
      1200* CHEMICAL END USE (RECORD IN 1000)
        1201*  CHEMICAL END USE NAME (NAME X(25) IN 1200)
        1202*  COMMENT (TEXT X(35) in 1200)
        1203*  CHEMICAL END USE AMT (NON-KEY DECIMAL NUMBER 9(5).999
               IN 1200)
        1204*  CHEMICAL END USE IPPEU NUMBER (INTEGER NUMBER 99999
               IN 1200)
        1205*  CHEMICAL PERCENT DOMESTIC USE (NON-KEY DECIMAL NUMBER
               999.999 IN 1200)
        1206*  CHEMICAL END USE SIC NUMBERS (RECORD IN 1200)
          1211*  CHEMICAL END USE SIC NUMBER (INTEGER NUMBER 9999
                 IN 1206)
      1250*  INDUSTRIAL END USE (RECORD IN 1000)
        1251*  INDUSTRIAL END USE NAME (NAME X(35) IN 1250)
        1252*  COMMENT (TEXT X(25) IN 1250)
        1253*  INDUSTRIAL END USE AMT (NON-KEY DECIMAL NUMBER 9(5).999
               IN 1250)
        1254*  INDUSTRIAL END USE IPPEU NUMBER (INTEGER NUMBER 99999
               IN 1250)
        1255* INDUSTRIAL PERCENT DOMESTIC USE (NON-KEY DECIMAL NUMBER
               IN 1250)
        1256*  INDUSTRIAL END USE SIC NUMBERS (RECORD IN 1250)
          1261*  INDUSTRIAL END USE SIC NUMBER (INTEGER NUMBER 9999
                 IN 1256)
      1300*  SYNONYMS (RECORD IN 1000)
        1301*  SYNONYM (CHAR X(40) IN 1300)
      1400*  PROCESS (RECORD IN 1000)
        1401*  PROCESS ID (INTEGER NUMBER 99 IN 1400)
        1402*  PROCESS ROUTE (CHAR X(25) IN 1400)
        1410*  PRODUCERS (RECORD IN 1400)
          1411*  PLANT ID (INTEGER NUMBER 9(5) IN 1410)
          1412*  PLANT CAPACITY (DECIMAL NUMBER 9(8).999 IN 1410)
        1420*  PROCESS IPPEU NUMBERS (RECORD IN 1400)
          1421*  PROCESS IPPEU NUMBER (INTEGER NUMBER 999 IN 1420)
          1422*  IPPEU CHAPTER NUMBER (INTEGER NUMBER 999 IN 1420)
        1430*  PROCESS DESCRIPTION (TEXT X(80) IN 1400)
          1431*  NARRATIVE DESCRIPTION (TEXT X(80) IN 1430)
        1440*  REACTION COMPONENTS (RECORD IN 1400)
          1441*  CHEMICAL NAME (NAME X(50) IN 1440)
          1442*  OCPDB NUMBER (INTEGER NUMBER 99999 IN 1440)
          1443*  ICPDB NUMBER (INTEGER NUMBER 99999 IN 1440)
          1444*  COMMENT (TEXT X(80) IN 1440)
          1445*  COMPONENT SIC NUMBER (INTEGER NUMBER 99999 IN 1440)
        1450*  OTHER PROCESS MATERIAL (RECORD IN 1400)
          1451*  DESCRIPTION OF MATERIAL (TEXT X(80) IN 1450)
   2000*  PRODUCER DESCRIPTION (RECORD)
     2001*  COMPANY (CHAR X(25) IN 2000)
     2002*  CITY (CHAR X(20) IN 2000)
     2003*  STATE (CHAR X(10) IN 2000)
     2004*  STATE CODE (CHAR XX IN 2000)
     2005*  EPA REGION (INTEGER NUMBER 99 IN 2000)
     2006*  RIVER BASIN (CHAR X(30) IN 2000)
     2007*  RIVER BASIN CODE (INTEGER NUMBER 9(8) IN 2000)
     2008*  ZIP CODE (INTEGER NUMBER 9(9) IN 2000)
     2009*  AQCR (INTEGER NUMBER 999 IN 2000)
     2010*  COUNTY (CHAR X(24) IN 2000)
     2011*  COUNTY CODE (INTEGER NUMBER 9999 IN 2000)
     2100*  PARENT COMPANIES (RECORD IN 2000)
       2101*  PARENT COMPANY (CHAR X(25) IN 2100)
```

Figure A.1 OCPDB Definition

# APPENDIX B

## OCPDB CHEMICAL PRODUCERS

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 10 | A & E PLASTIK PAK CO., INC. | CITY OF INDUSTRY | CA |
| 30 | ABBOTT LABORATORIES | WICHITA | KS |
| 20 | ABBOTT LABORATORIES | NORTH CHICAGO | IL |
| 35 | ABTEC CHEM. CO. | LOUISVILLE | KY |
| | BF GOODRICH | | |
| | COSDEN OIL AND CHEMICAL CO. | | |
| 50 | ACME-HARDESTY CO., INC. | JENKINTOWN | PA |
| 60 | ADCO CHEM. CO., INC. | NEWARK | NJ |
| 70 | ADD PROCESSING CORP. | ABBEVILLE | LA |
| 75 | ADELL PLASTICS, INC. | BALTIMORE | MD |
| 80 | ADHESIVE PRODUCTS CORP. | BRONX | NY |
| 85 | ADM FOOD OILS CO. | DECATUR | IL |
| | ARCHER DANIELS MIDLAND CO. | | |
| 11650 | AGRICO CHEM. CO. | DONALDSONVILLE | LA |
| | WILLIAMS COMPANIES, THE | | |
| 11640 | AGRICO CHEM. CO. | BLYTHEVILLE | AR |
| | WILLIAMS COMPANIES, THE | | |
| 11660 | AGRICO CHEM. CO. | VERDIGRIS | OK |
| | WILLIAMS COMPANIES, THE | | |
| 110 | AGWAY INC. | OLEAN | NY |
| 120 | AIR PRODUCTS AND CHEMS., INC. | PENSACOLA | FL |
| 170 | AIR PRODUCTS AND CHEMS., INC. | CITY OF INDUSTRY | CA |
| 140 | AIR PRODUCTS AND CHEMS., INC. | HOMETOWN | PA |
| 160 | AIR PRODUCTS AND CHEMS., INC. | MIDDLESEX | NJ |
| 190 | AIR PRODUCTS AND CHEMS., INC. | CLEVELAND | OH |
| 130 | AIR PRODUCTS AND CHEMS., INC. | CALVERT CITY | KY |
| 180 | AIR PRODUCTS AND CHEMS., INC. | ELKTON | MD |
| 202 | AIRCO, INC. | CALVERT CITY | KY |
| | BOC INTERNATIONAL LTD. | | |
| 200 | AIRCO, INC. | LOUISVILLE | KY |
| 205 | AIRCO, INC. | HOUSTON | TX |
| | BOC INTERNATIONAL LIMITED | | |
| 230 | AKZONA INC. | CENTRAL | SC |
| 210 | AKZONA INC. | ENKA | NC |
| 240 | AKZONA INC. | LOWLAND | TN |
| 245 | ALABAMA BY-PRODUCTS CORP. | TARRANT | AL |
| 4260 | ALABAMA WESTERN CHEM. CORP. | TUSCALOOSA | AL |
| | FALLEK CHEMICAL CORP. | | |
| 247 | ALAN WOOD STEEL CO. | SWEDELAND | PA |
| 250 | ALBA MANUFACTURING CO. | AURORA | IL |
| 265 | ALBERTA GAS CHEMS. INC. | DULUTH | MN |
| 280 | ALCO STANDARD CORP. | PHILADELPHIA | PA |
| 285 | ALCOLAC INC. | BALTIMORE | MD |
| 290 | ALDRICH CHEM. CO., INC. | MILWAUKEE | WI |
| 292 | ALLEMANIA CHEMICAL CO. | PLAQUEMINE | LA |
| 430 | ALLIED CHEMICAL CORP. | MARCUS HOOK | PA |
| 420 | ALLIED CHEMICAL CORP. | FRANKFORD | PA |
| 470 | ALLIED CHEMICAL CORP. | MOUNDSVILLE | WV |
| 390 | ALLIED CHEMICAL CORP. | BUFFALO | NY |
| 380 | ALLIED CHEMICAL CORP. | ELIZABETH | NJ |
| 370 | ALLIED CHEMICAL CORP. | OMAHA | NE |
| 410 | ALLIED CHEMICAL CORP. | SOUTH POINT | OH |
| 500 | ALLIED CHEMICAL CORP. | IRMO | SC |
| 440 | ALLIED CHEMICAL CORP. | ORANGE | TX |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 480 | ALLIED CHEMICAL CORP. | LOS ANGELES | CA |
| 335 | ALLIED CHEMICAL CORP. | SYRACUSE | NY |
| 460 | ALLIED CHEMICAL CORP. | HOPEWELL | VA |
| 320 | ALLIED CHEMICAL CORP. | EL SEGUNDO | CA |
| 340 | ALLIED CHEMICAL CORP. | BATON ROUGE | LA |
| 425 | ALLIED CHEMICAL CORP. | IRONTON | OH |
| 423 | ALLIED CHEMICAL CORP. | ASHLAND | KY |
| 490 | ALLIED CHEMICAL CORP. | TOLEDO | OH |
| 330 | ALLIED CHEMICAL CORP. | DANVILLE | IL |
| 510 | ALLIED CHEMICAL CORP. | CHESTERFIELD | VA |
| 355 | ALLIED CHEMICAL CORP. | COLUMBIA | SC |
| 350 | ALLIED CHEMICAL CORP.<br>BASF WYANDOTTE-OLEFINS PLANT-J.V.<br>BORG-WARNER CORP.-OLEFINS PLANT-J.V. | GEISMAR | LA |
| 300 | ALLIED CHEMICAL CORP. | MONCURE | NC |
| 421 | ALLIED CHEMICAL CORP. | HELENA | AR |
| 360 | ALLIED CHEMICAL CORP. | DETROIT | MI |
| 520 | ALLIED PRODUCTS CORP. | NEW HAVEN | CT |
| 523 | ALPHA CHEM. CORP. | KATHLEEN | FL |
| 521 | ALPHA CHEM. CORP. | COLLIERVILLE | TN |
| 525 | ALPHA CHEM. CORP. | PERRIS | CA |
| 580 | AMERICAN COLOR & CHEM. CORP<br>KOPPERS CO., INC.<br>NORTH AMERICAN PHILIPS CORP. | LOCK HAVEN | PA |
| 600 | AMERICAN CYANAMID CO. | WALLINGFORD | CT |
| 630 | AMERICAN CYANAMID CO. | BOUND BROOK | NJ |
| 650 | AMERICAN CYANAMID CO. | MARIETTA | OH |
| 620 | AMERICAN CYANAMID CO. | CHARLOTTE | NC |
| 625 | AMERICAN CYANAMID CO. | KALAMAZOO | MI |
| 670 | AMERICAN CYANAMID CO. | WILLOW ISLAND | WV |
| 595 | AMERICAN CYANAMID CO. | WOODBRIDGE | NJ |
| 610 | AMERICAN CYANAMID CO. | NEW ORLEANS | LA |
| 655 | AMERICAN CYANAMID CO. | MILTON | FL |
| 640 | AMERICAN CYANAMID CO. | LINDEN | NJ |
| 730 | AMERICAN HOECHST CORP. | SPARTANBURG | SC |
| 690 | AMERICAN HOECHST CORP. | LEOMINSTER | MA |
| 710 | AMERICAN HOECHST CORP. | MANCHESTER | NH |
| 675 | AMERICAN HOECHST CORP. | BATON ROUGE | LA |
| 750 | AMERICAN HOECHST CORP. | PERU | IL |
| 680 | AMERICAN HOECHST CORP. | DELAWARE CITY | DE |
| 740 | AMERICAN HOECHST CORP. | CHESAPEAKE | VA |
| 720 | AMERICAN HOECHST CORP. | COVENTRY | RI |
| 700 | AMERICAN HOECHST CORP. | MOUNT HOLLY | NC |
| 677 | AMERICAN HOECHST CORP. | BAY PORT | TX |
| 770 | AMERICAN PETROFINA CO. OF TEXAS<br>AMERICAN PETROFINA INC.<br>UNION OIL OF CALIFORNIA-J.V. | BEAUMONT | TX |
| 800 | AMERICAN PETROFINA CO. OF TEXAS<br>AMERICAN PETROFINA INC. | PORT ARTHUR | TX |
| 810 | AMERICAN POLYMERS, INC. | PATERSON | NJ |
| 820 | AMES LABS., INC., THE | MILFORD | CT |
| 830 | AMETEK, INC. | ODENTON | MD |
| 10065 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | CHARLESTON | SC |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 9970 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | WOOD RIVER | IL |
| 10060 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | WILLOW SPRINGS | IL |
| 10070 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | SUGAR CREEK | MO |
| 10040 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | TORRANCE | CA |
| 10000 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | YORKTOWN | VA |
| 9980 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | CHOCOLATE BAYOU | TX |
| 9960 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | JOLIET | IL |
| 10055 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | TEXAS CITY | TX |
| 10050 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | NEW CASTLE | DE |
| 9950 | AMOCO CHEMS. CORP.<br>STANDARD OIL CO. (INDIANA) | DECATUR | AL |
| 10016 | AMOCO OIL CO.<br>STANDARD OIL CO. (INDIANA) | WOOD RIVER | IL |
| 10017 | AMOCO OIL CO.<br>STANDARD OIL CO. (INDIANA) | YORKTOWN | VA |
| 10015 | AMOCO OIL CO.<br>STANDARD OIL CO. (INDIANA) | WHITING | IN |
| 10010 | AMOCO OIL CO.<br>STANDARD OIL CO. (INDIANA) | TEXAS CITY | TX |
| 840 | AMVAC CHEM. CORP. | LOS ANGELES | CA |
| 850 | ANDREW JERGENS CO., THE | CINCINNATI | OH |
| 860 | ANSUL CO., THE | MARINETTE | WI |
| 870 | APEX CHEM. CO., INC. | ELIZABETHPORT | NJ |
| 880 | APPLIED PLASTICS CO. INC. | EL SEGUNDO | CA |
| 940 | ARCO/POLYMERS, INC.<br>ATLANTIC RICHFIELD CO. | PORT ARTHUR | TX |
| 970 | ARCO/POLYMERS, INC.<br>ATLANTIC RICHFIELD CO. | HOUSTON | TX |
| 975 | ARCO/POLYMERS, INC.<br>ATLANTIC RICHFIELD CO. | LA PORTE | TX |
| 910 | ARCO/POLYMERS, INC.<br>ATLANTIC RICHFIELD CO. | BEAVER VALLEY | PA |
| 6030 | ARISTO INTERNATIONAL CORP.<br>INTERNATIONAL MINERALS & CHEM. CORP. | DETROIT | MI |
| 977 | ARKANSAS CO., INC. | NEWARK | NJ |
| 985 | ARMCO INC. | HAMILTON | OH |
| 986 | ARMCO INC. | HOUSTON | TX |
| 980 | ARMCO STEEL CORP. | MIDDLETOWN | OH |
| 990 | ARMOUR-DIAL, INC.<br>GREYHOUND CORP., THE | MONTGOMERY | IL |
| 995 | ARNCO | SOUTH GATE | CA |
| 997 | AROL CHEMICAL PRODUCTS CO. | NEWARK | NJ |
| 40 | ARSYNCO, INC.<br>ACETO CHEM. CO., INC. | CARLSTADT | NJ |
| 1050 | ASHLAND OIL, INC. | NORTH TONAWANDA | NY |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 1100 | ASHLAND OIL, INC. | CALUMET CITY | IL |
| 1110 | ASHLAND OIL, INC. | FORDS | NJ |
| 1140 | ASHLAND OIL, INC. | NEAL | WV |
| 1130 | ASHLAND OIL, INC. | CLEVELAND | OH |
| 1120 | ASHLAND OIL, INC. | NEWARK | NJ |
| 1030 | ASHLAND OIL, INC. | LOUISVILLE | KY |
| 1020 | ASHLAND OIL, INC. | ASHLAND | KY |
| 1090 | ASHLAND OIL, INC. | PENSACOLA | FL |
| 1080 | ASHLAND OIL, INC. | LOS ANGELES | CA |
| 950 | ATLANTIC RICHFIELD CO. | CARSON | CA |
| 920 | ATLANTIC RICHFIELD CO. | CHANNELVIEW | TX |
| 930 | ATLANTIC RICHFIELD CO. | HOUSTON | TX |
| 10850 | ATLAS POWDER CO.<br>TYLER CORP. | JOPLIN<br>SHREVEPORT | MO<br>LA |
| 8150 | ATLAS PROCESSING CO.<br>PENNZOIL CO. | PLAINVIEW | NY |
| 1160 | ATOMERGIC CHEMETALS CORP. | HOPE VALLEY | RI |
| 1165 | AURALUX CHEMICAL ASSOCIATES, INC. | LEWISTOWN | PA |
| 1170 | AVTEX FIBERS INC. | FRONT ROYAL | VA |
| 1190 | AVTEX FIBERS INC. | MEADVILLE | PA |
| 1180 | AVTEX FIBERS INC. | NITRO | WV |
| 1200 | AVTEX FIBERS INC. | ATLANTA | GA |
| 1205 | AZS CORP. | SAYREVILLE | NJ |
| 1209 | AZS CORP. | NEWARK | NJ |
| 1207 | AZS CORP. | EATON PARK | FL |
| 1210 | AZS CORP. | WILLIAMSBURG | VA |
| 3315 | BADISCHE CORP.<br>BASF AKTIENGESELLSCHAFT | FREEPORT | TX |
| 3330 | BADISCHE CORP.<br>BASF AKTIENGESELLSCHAFT | ANDERSON | SC |
| 3320 | BADISCHE CORP.<br>BASF AKTIENGESELLSCHAFT | GLENSHAW | PA |
| 1230 | BALL CHEM. CO. | STEUBENVILLE | OH |
| 1286 | BARIUM AND CHEMS., INC. | CHICAGO | IL |
| 1287 | BARTON CHEM. CORP. | GEISMAR | LA |
| 1240 | BASF WYANDOTTE CORP.<br>ALLIED CHEMICAL CORP.-OLEFINS PLANT-J.V.<br>BORG-WARNER CORP.-OLEFINS PLANT-J.V. | WYANDOTTE | MI |
| 1250 | BASF WYANDOTTE CORP. | JAMESBURG | NJ |
| 1260 | BASF WYANDOTTE CORP. | KEARNY | NJ |
| 1270 | BASF WYANDOTTE CORP. | WASHINGTON | NJ |
| 1280 | BASF WYANDOTTE CORP. | RENSSELAER | NY |
| 4610 | BASF WYANDOTTE CORP.<br>BASF AKTIENGESELLSCHAFT | BALTIMORE | MD |
| 1285 | BEATRICE FOODS CO. | PEABODY | MA |
| 1290 | BEATRICE FOODS CO. | WILMINGTON | MA |
| 1300 | BEATRICE FOODS CO. | PALO ALTO | CA |
| 1310 | BECKMAN INSTRUMENTS, INC. | GROSVENORDALE | CT |
| 1330 | BELDING CHEM. INDUST.<br>BELDING HEMINWAY CO., INC. | GREEN ISLAND | NY |
| 1340 | BENDIX CORP., THE | CLEVELAND | OH |
| 1355 | BENJAMIN MOORE & CO. | LOS ANGELES | CA |
| 1350 | BENJAMIN MOORE & CO. | MELROSE PARK | IL |
| 1360 | BENJAMIN MOORE & CO. | | |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 1370 | BENJAMIN MOORE & CO. | ST. LOUIS | MO |
| 1380 | BENJAMIN MOORE & CO. | NEWARK | NJ |
| 1390 | BENNETT'S | SALT LAKE CITY | UT |
| 1400 | BERKLEY & CO. | SPIRIT LAKE | IA |
| 1420 | BETHLEHEM STEEL CORP. | LACKAWANNA | NY |
| 1430 | BETHLEHEM STEEL CORP. | BETHLEHEM | PA |
| 1405 | BETHLEHEM STEEL CORP. | BURNS HARBOR | IN |
| 1410 | BETHLEHEM STEEL CORP. | SPARROWS POINT | MD |
| 1415 | BETHLEHEM STEEL CORP. | JOHNSTOWN | PA |
| 1510 | BFGOODRICH CO., INC. | AVON LAKE | OH |
| 1460 | BFGOODRICH CO., THE | PORT NECHES | TX |
| 1480 | BFGOODRICH CO., THE | LOUISVILLE | KY |
| 1470 | BFGOODRICH CO., THE | LONG BEACH | CA |
| 1500 | BFGOODRICH CO., THE | AKRON | OH |
| 1450 | BFGOODRICH CO., THE | CALVERT CITY | KY |
| 1440 | BFGOODRICH CO., THE | HENRY | IL |
| 1490 | BFGOODRICH CO., THE | PEDRICKTOWN | NJ |
| 1495 | BFGOODRICH CO., THE | PLAQUEMINE | LA |
| 1520 | BIO-RAD LABORATORIES | RICHMOND | CA |
| 1525 | BISON NITROGEN PRODUCTS | WOODWARD | OK |
| 1527 | BISONITE CO., INC. | BUFFALO | NY |
| 1530 | BLUE SPRUCE CO. | BOUND BROOK | NJ |
| 1555 | BOFORS LAKEWAY, INC.<br>BOFORS AMERICA, INC. | MUSKEGON | MI |
| 1660 | BORDEN INC. | LA GRANDE | OR |
| 1570 | BORDEN INC. | COMPTON | CA |
| 1580 | BORDEN INC. | FREMONT | CA |
| 1610 | BORDEN INC. | GEISMAR | LA |
| 1600 | BORDEN INC. | LOUISVILLE | KY |
| 1630 | BORDEN INC. | MISSOULA | MT |
| 1620 | BORDEN INC. | LEOMINSTER | MA |
| 1650 | BORDEN INC. | BAINBRIDGE | NY |
| 1560 | BORDEN INC. | DEMOPOLIS | AL |
| 1670 | BORDEN INC. | SPRINGFIELD | OR |
| 1690 | BORDEN INC. | KENT | WA |
| 1590 | BORDEN INC. | ILLIOPOLIS | IL |
| 1680 | BORDEN INC. | DIBOLL | TX |
| 1700 | BORDEN INC. | SHEBOYGAN | WI |
| 1640 | BORDEN INC. | FAYETTEVILLE | NC |
| 1730 | BORG-WAR ER CHEMICALS U.S.A.<br>BORG-WARNER CORP. | WASHINGTON | WV |
| 1710 | BORG-WARNER CHEMICALS U.S.A.<br>BORG-WARNER CORP. | OTTAWA | IL |
| 1720 | BORG-WARNER CHEMICALS U.S.A.<br>BORG-WARNER CORP. | MORGANTOWN | WV |
| 1740 | BRAND-S CORP. | EUGENE | OR |
| 1750 | BROWN CO.<br>GULF WESTERN INDUSTRIES, INC. | BERLIN | NH |
| 8600 | BUCKEYE CELLULOSE CORP., THE<br>PROCTER & GAMBLE CO., THE | MEMPHIS | TN |
| 1770 | BUCKMAN LABORATORIES, INC. | MEMPHIS | TN |
| 1760 | BUCKMAN LABORATORIES, INC. | CADET | MO |
| 1785 | BUFFALO COLOR CORP. | BUFFALO | NY |
| 2827 | C P L CORP. | EAST PROVIDENCE | RI |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 1805 | CAL POLYMERS, INC. | LONG BEACH | CA |
| 1787 | CALCASIEU CHEMICAL CORP. | LAKE CHARLES | LA |
| 10210 | CALHIO CHEMS., INC.<br>STAUFFER CHEMICAL CO. | PERRY | OH |
| 1800 | CALIFORNIA RESIN AND CHEM. CO., INC. | VALLEJO | CA |
| 1810 | CAMAC CORP. | BRISTOL | VA |
| 1830 | CARBORUNDUM CO., THE<br>KENNECOTT COPPER CORP. | NIAGARA FALLS | NY |
| 1835 | CARBOSE CORP. | SOMERSET | PA |
| 1850 | CARGILL, INC. | FOREST PARK | GA |
| 1870 | CARGILL, INC. | PHILADELPHIA | PA |
| 1860 | CARGILL, INC. | CARPENTERSVILLE | IL |
| 1840 | CARGILL, INC. | LYNWOOD | CA |
| 1880 | CARIBE ISOPRENE CORP.<br>COMMONWEALTH OIL REFINING COMPANY, INC.<br>MITSUBISHI CORPORATION<br>NIPPON ZEON COMPANY | PONCE | PR |
| 1890 | CARL GORDON INDUST., INC. | OXFORD | MA |
| 1905 | CARL GORDON INDUST., INC. | OWENSBORO | KY |
| 1900 | CARL GORDON INDUST., INC. | WORCESTER | MA |
| 3500 | CARPENTER CHEM. CO.<br>E. R. CARPENTER CO., INC. | BAYPORT | TX |
| 1920 | CATAWBA-CHARLAB INC. | CHARLOTTE | NC |
| 1945 | CELANESE CORP | GREER | SC |
| 1970 | CELANESE CORP. | BISHOP | TX |
| 1940 | CELANESE CORP. | NEWARK | NJ |
| 2030 | CELANESE CORP. | BRIDGEVIEW | IL |
| 2000 | CELANESE CORP. | NARROWS | VA |
| 1980 | CELANESE CORP. | CLEAR LAKE | TX |
| 1950 | CELANESE CORP. | ROCK HILL | SC |
| 1990 | CELANESE CORP. | PAMPA | TX |
| 1960 | CELANESE CORP. | BAY CITY | TX |
| 1985 | CELANESE CORP. | CUMBERLAND | MD |
| 2050 | CELANESE POLYMER SPECIALTIES CO.<br>CELANESE CORP. | CHARLOTTE | NC |
| 2020 | CELANESE POLYMER SPECIALTIES CO.<br>CELANESE CORP. | NEWARK | CA |
| 2010 | CELANESE POLYMER SPECIALTIES CO.<br>CELANESE CORP. | LOS ANGELES | CA |
| 2040 | CELANESE POLYMER SPECIALTIES CO.<br>CELANESE CORP. | LOUISVILLE | KY |
| 9125 | CELANESE POLYMER SPECIALTIES CO.<br>CELANESE CORP. | LINDEN | NJ |
| 8370 | CELLOMER CORP.<br>POLYCHROME CORP. | NEWARK | NJ |
| 2060 | CERTAIN-TEED CORP. | LAKE CHARLES | LA |
| 2090 | CF INDUSTRIES, INC. | FREMONT | NE |
| 2070 | CF INDUSTRIES, INC. | DONALDSONVILLE | LA |
| 2100 | CF INDUSTRIES, INC. | TYNER | TN |
| 2080 | CF INDUSTRIES, INC. | TUNIS | NC |
| 2110 | CF&I STEEL CORP. | PUEBLO | CO |
| 11100 | CHAMPLIN PETROLEUM CO.<br>UNION PACIFIC CORP. | CORPUS CHRISTI | TX |
| 2140 | CHARTER INTERNATIONAL OIL CO. | HOUSTON | TX |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| | CHARTER CO., THE | | |
| 2405 | CHAS. S. TANNER CO. | WOODRUFF | SC |
| | CIBA-GEIGY CORP. | | |
| 2410 | CHAS. S. TANNER CO. | GREENVILLE | SC |
| | CIBA-GEIGY CORP. | | |
| 2185 | CHATTANOOGA COKE & CHEMS. CO., INC. | ALTON PARK | TN |
| 2200 | CHATTEM, INC. | CHATTANOOGA | TN |
| 4960 | CHEMBOND CORP. | SPRINGFIELD | OR |
| | GETTY OIL CO. | | |
| 4950 | CHEMBOND CORP. | WINNFIELD | LA |
| | GETTY OIL CO. | | |
| 4920 | CHEMBOND CORP. | ANDALUSIA | AL |
| | GETTY OIL CO. | | |
| 4970 | CHEMBOND CORP. | SPOKANE | WA |
| | GETTY OIL CO. | | |
| 2340 | CHEMETALS CORP. | CURTIS BAY | MD |
| | SEDEMA SA | | |
| 2230 | CHEMFAX, INC. | GULFPORT | MS |
| 2245 | CHEMICAL EXCHANGE CO. INC. | BAYTOWN | TX |
| 2247 | CHEMICAL EXCHANGE CO. INC. | HOUSTON | TX |
| 2250 | CHEMICAL FORMULATORS, INC. | NITRO | WV |
| 2270 | CHEMICAL PRODUCTS CORP. | ELMWOOD PARK | NJ |
| 2280 | CHEMICAL & POLLUTION SCIENCES, INC. | OLD BRIDGE | NJ |
| 2330 | CHEMITHON CORP., THE | SEATTLE | WA |
| 2290 | CHEMOL, INC. | GREENSBORO | NC |
| 2300 | CHEMPLEX CO. | CLINTON | IA |
| | AMERICAN CAN CO. | | |
| | GETTY OIL CO. | | |
| 2310 | CHEM-FLEUR INC. | NEWARK | NJ |
| 2240 | CHEM. COATINGS & ENGINEERING CO., INC. | MEDIA | PA |
| 2320 | CHEM. PROCESSORS, INC. | SEATTLE | WA |
| 10090 | CHEVRON CHEM. CO. | RICHMOND | CA |
| | STANDARD OIL CO. OF CALIFORNIA | | |
| | DART INDUSTRIES-J.V.-PROPYLENE | | |
| 9940 | CHEVRON CHEM. CO. | EL SEGUNDO | CA |
| | STANDARD OIL OF CALIFORNIA | | |
| | DART INDUSTRIES-J. V.-PROPYLENE | | |
| 10105 | CHEVRON CHEM. CO. | PASCAGOULA | MS |
| | STANDARD OIL CO. OF CALIFORNIA | | |
| 10100 | CHEVRON CHEM. CO. OF PUERTO RICO | GUAYAMA | PR |
| | STANDARD OIL CO. OF CALIFORNIA | | |
| 2350 | CHICAGO SANITARY PRODUCTS CO. | CHICAGO | IL |
| 2400 | CIBA-GEIGY CORP. | CRANSTON | RI |
| 2380 | CIBA-GEIGY CORP. | SUMMIT | NJ |
| 2370 | CIBA-GEIGY CORP. | ST. GABRIEL | LA |
| 2360 | CIBA-GEIGY CORP. | MCINTOSH | AL |
| 2390 | CIBA-GEIGY CORP. | TOMS RIVER | NJ |
| 2412 | CINDET CHEMICALS, INC. | GREENSBORO | NC |
| 2425 | CITIES SERVICE CO. | TEXAS CITY | TX |
| 2420 | CITIES SERVICE CO. | LAKE CHARLES | LA |
| 2430 | CITIES SERVICE CO. | COPPERHILL | TN |
| 2435 | CITIZENS GAS & COKE UTILITY | INDIANAPOLIS | IN |
| 2415 | CITY CHEM. CORP. | JERSEY CITY | NJ |
| 2450 | CLARENCE L. MEYERS & CO. | ANSONVILLE | NC |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 2470 | CLARK CHEM. CORP.<br>CLARK OIL & REFINING CORP. | BLUE ISLAND | IL |
| 2460 | CLARK CHEM. CORP.<br>CLARK OIL & REFINING CORP. | WOOD RIVER | IL |
| 2475 | CLINTON CORN PROCESSING CO. INC.<br>STANDARD BRANDS, INC. | CLINTON | IA |
| 2480 | CLORAY NJ CORP. | NEWARK | NJ |
| 2490 | COASTAL STATES MARKETING, INC.<br>COASTAL STATES GAS CORP. | CORPUS CRISTI | TX |
| 2520 | COLGATE-PALMOLIVE CO. | JEFFERSONVILLE | IN |
| 2540 | COLGATE-PALMOLIVE CO. | JERSEY CITY | NJ |
| 2530 | COLGATE-PALMOLIVE CO. | KANSAS CITY | KS |
| 2510 | COLGATE-PALMOLIVE CO. | BERKELEY | CA |
| 2555 | COLORADO FUEL & IRON STEEL CORP. | PUEBLO | CO |
| 2560 | COLT INDUSTRIES INC. | MIDLAND | PA |
| 2570 | COLUMBIA NITROGEN CORP. | AUGUSTA | GA |
| 2580 | COMBUSTION ENGINEERING, INC. | MUSE | PA |
| 2585 | COMINCO AMERICAN INC.<br>COMINCO LTD. | BORGER | TX |
| 2590 | COMMERCIAL PRODUCTS CO. | HAWTHORNE | NJ |
| 2640 | COMMONWEALTH PETROCHEMS., INC.<br>COMMONWEALTH OIL REFINING CO., INC. | PONCE | PR |
| 2645 | COMMUNICATIONS TECHNOLOGY CORP. | LOS ANGELES | CA |
| 11603 | CONAP, INC.<br>WHEELABRATOR-FRYE INC. | OLEAN | NY |
| 2652 | CONCHEMCO INC. | KANSAS CITY | MO |
| 2650 | CONCHEMCO INC. | BALTIMORE | MD |
| 2653 | CONCO PRODUCTS<br>CONTINENTAL CHEMICAL CO. | CLIFTON | NJ |
| 2660 | CONOCO INC. | LAKE CHARLES | LA |
| 2695 | CONOCO INC. | HAMMOND | IN |
| 2690 | CONOCO INC. | ABERDEEN | MS |
| 2680 | CONOCO INC. | BALTIMORE | MD |
| 2670 | CONOCO INC. | NEWARK | NJ |
| 2700 | CONOCO INC. | OKLAHOMA CITY | OK |
| 2658 | CONSOLIDATED PAPERS, INC. | WISCONSIN RAPIDS | WI |
| 2705 | CONVENT CHEMICAL CORP. | CALVERT CITY | KY |
| 2730 | COOK PAINT & VARNISH CO. | NORTH KANSAS CITY | MO |
| 2710 | COOK PAINT & VARNISH CO. | MILPITAS | CA |
| 2720 | COOK PAINT & VARNISH CO. | DETROIT | MI |
| 2740 | COOK PAINT & VARNISH CO. | HOUSTON | TX |
| 2750 | COOPER POLYMERS, INC. | WILMINGTON | MA |
| 2770 | COPOLYMER RUBBER & CHEMICAL CORP.<br>ARMSTRONG RUBBER CO., THE<br>GATES RUBBER CO., THE<br>MANSFIELD TIRE & RUBBER CO., THE<br>SEARS ROEBUCK & CO. | BATON ROUGE | LA |
| 2775 | CORCO CYCLOHEXANE, INC.<br>COMMONWEALTH OIL REFINING CO. INC. | PONCE | PR |
| 2780 | CORE-LUBE, INC. | DANVILLE | IL |
| 2785 | CORPUS CHRISTI PETROCHEMICAL CO. | CORPUS CHRISTI | TX |
| 790 | COSDEN OIL & CHEM. CO.<br>AMERICAN PETROFINA INC. | GROVES | TX |
| 780 | COSDEN OIL & CHEM. CO. | BIG SPRING | TX |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| | AMERICAN PETROFINA INC. | CALUMET CITY | IL |
| 765 | COSDEN OIL & CHEM. CO. | | |
| | AMERICAN PETROFINA INC. | ORANGE | CA |
| 10300 | COSDEN OIL & CHEM. CO. | | |
| | AMERICAN PETROFINA INC. | WINDSOR | NJ |
| 10310 | COSDEN OIL & CHEM. CO. | | |
| | AMERICAN PETROFINA INC. | CARVILLE | LA |
| 2790 | COS-MAR, INC. | | |
| | BORG-WARNER CORP. | | |
| | COSDEN OIL AND CHEM. CO. | LE MOYNE | AL |
| 2800 | COURTAULDS NORTH AMERICA INC. | NEWARK | NJ |
| 2810 | CPC INTERNATIONAL INC. | FOREST PARK | IL |
| 2820 | CPC INTERNATIONAL INC. | DALLAS | TX |
| 2833 | CRAIN CHEM. CO., INC. | NEWARK | NJ |
| 2656 | CREST CHEMICAL CORP. | FORT WORTH | TX |
| 2655 | CREST CONTAINER CORP. | | |
| | CONTINENTAL GROUP, INC., THE | FAIR LAWN | NJ |
| 2835 | CROMPTON & KNOWLES CORP. | GIBRALTAR | PA |
| 2830 | CROMPTON & KNOWLES CORP. | READING | PA |
| 2840 | CROMPTON & KNOWLES CORP. | PICAYUNE | MS |
| 2850 | CROSBY CHEMS., INC. | HOUSTON | TX |
| 2890 | CROWLEY CHEMICAL CO. INC. | CROWLEY | LA |
| 2860 | CROWLEY CHEMICAL CO. INC. | KENT | OH |
| 2870 | CROWLEY CHEMICAL CO. INC. | OKLAHOMA CITY | OK |
| 2880 | CROWLEY CHEMICAL CO. INC. | OKLAHOMA CITY | OK |
| 2910 | CROWLEY TAR PRODUCTS CO., INC. | KENT | OH |
| 2900 | CROWLEY TAR PRODUCTS CO., INC. | PASADENA | TX |
| 2920 | CROWN CENTRAL PETROLEUM CORP. | BOGALUSA | LA |
| 2930 | CROWN ZELLERBACH CORP. | CAMAS | WA |
| 2940 | CROWN ZELLERBACH CORP. | HENDERSON | KY |
| 1335 | CUSTOM RESINS, INC. | | |
| | BEMIS CO., INC. | MIAMI | FL |
| 2955 | CYCLO CHEMS. CORP. | PORTSMOUTH | OH |
| 2957 | CYCLOPS CORP. | WALLINGFORD | CT |
| 2960 | CY/RO INDUSTRIES, INC. | | |
| | AMERICAN CYANAMID CO. | | |
| | ROHM GMBH CHEMISCHE FALINK | WESTWEGO | LA |
| 2970 | CY/RO INDUSTRIES, INC. | | |
| | AMERICAN CYANAMID CO. | | |
| | ROHM GMBH CHEMISCHE FALINK | PENNSAUKEN | NJ |
| 2440 | C. J. OSBORN CHEMS., INC. | SEWAREN | NJ |
| 2805 | C. P. CHEMS., INC. | CHICAGO | IL |
| 2825 | C. P. HALL CO., THE | PROVIDENCE | RI |
| 2485 | C.N.C. CHEMICAL CORP. | DANVILLE | VA |
| 2980 | DAN RIVER, INC. | CHICAGO | IL |
| 2990 | DARLING & CO. | CLEVELAND | OH |
| 3050 | DART INDUST. INC. | ELYRIA | OH |
| 3000 | DART INDUST. INC. | LUDLOW | MA |
| 3040 | DART INDUST. INC. | DOVER | NH |
| 3075 | DAVIDSON RUBBER CO. | CHICAGO HEIGHTS | IL |
| 3080 | DAWE'S LABS., INC. | DAYTON | OH |
| 3095 | DAYCO CORP. | CHICAGO HEIGHTS | IL |
| 3110 | DE SOTO, INC. | GARLAND | TX |
| 3120 | DE SOTO, INC. | | |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 3130 | DEGEN OIL & CHEM. CO. | JERSEY CITY | NJ |
| 3092 | DEGUSSA CORPORATION<br>DEGUSSA AG<br>SHELL | THEODORE | AL |
| 3135 | DENKA CHEM. CORP. | HOUSTON | TX |
| 3140 | DENNIS CHEM. CO. | ST. LOUIS | MO |
| 3145 | DERBY CO. INC., THE | ASHLAND | MA |
| 3170 | DEXTER CORP., THE | ROCKY HILL | CT |
| 3150 | DEXTER CORP., THE | CITY OF INDUSTRY | CA |
| 3190 | DEXTER CORP., THE | OLEAN | NY |
| 3180 | DEXTER CORP., THE | WAUKEGAN | IL |
| 3200 | DEXTER CORP., THE | CLEVELAND | OH |
| 3160 | DEXTER CORP., THE | HAYWARD | CA |
| 3260 | DIAMOND SHAMROCK CORP. | DEER PARK | TX |
| 3235 | DIAMOND SHAMROCK CORP. | OXNARD | CA |
| 3265 | DIAMOND SHAMROCK CORP. | CHARLOTTE | NC |
| 3280 | DIAMOND SHAMROCK CORP. | BELLE | WV |
| 3255 | DIAMOND SHAMROCK CORP. | PAINESVILLE | OH |
| 3240 | DIAMOND SHAMROCK CORP. | HARRISON | NJ |
| 3220 | DIAMOND SHAMROCK CORP. | CEDARTOWN | GA |
| 3270 | DIAMOND SHAMROCK CORP. | LA PORTE | TX |
| 3210 | DIAMOND SHAMROCK CORP. | DELAWARE CITY | DE |
| 3285 | DIAMOND SHAMROCK CORP. | CARLSTADT | NJ |
| 3250 | DIAMOND SHAMROCK CORP. | ASHTABULA | OH |
| 3230 | DIAMOND SHAMROCK CORP. | LOUISVILLE | KY |
| 3287 | DISOGRIN INDUST. CORP. | MANCHESTER | NH |
| 3290 | DIXIE CHEMICAL CO. | BAYPORT | TX |
| 3300 | DOCK RESINS CORP. | LINDEN | NJ |
| 3310 | DON CHEMICAL CO. | ANCHORAGE | AK |
| 3313 | DONNER-HANNA COKE CORP.<br>HANNA FURNACE CORP.<br>REPUBLIC STEEL CORP. | BUFFALO | NY |
| 5830 | DOVER CHEMICAL CORPORATION<br>ICC INDUSTRIES, INC. | DOVER | OH |
| 3430 | DOW CHEMICAL U.S.A. | GALES FERRY | CT |
| 3410 | DOW CHEMICAL U.S.A. | OYSTER CREEK | TX |
| 3390 | DOW CHEMICAL U.S.A. | MIDLAND | MI |
| 3350 | DOW CHEMICAL U.S.A. | PITTSBURG | CA |
| 3340 | DOW CHEMICAL U.S.A. | MAGNOLIA | AR |
| 3420 | DOW CHEMICAL U.S.A. | ALLYN'S POINT | CT |
| 3450 | DOW CHEMICAL U.S.A. | PEVELY | MO |
| 3460 | DOW CHEMICAL U.S.A. | IRONTON | OH |
| 3360 | DOW CHEMICAL U.S.A. | TORRANCE | CA |
| 3370 | DOW CHEMICAL U.S.A. | PLAQUEMINE | LA |
| 3400 | DOW CHEMICAL U.S.A. | FREEPORT | TX |
| 3440 | DOW CHEMICAL U.S.A. | JOLIET | IL |
| 3470 | DOW CORNING CORP.<br>CORNING GLASS WORKS<br>DOW CHEMICAL CO. | CARROLLTON | KY |
| 3480 | DOW CORNING CORP.<br>CORNING GLASS WORKS<br>DOW CHEMICAL CO.. | MIDLAND | MI |
| 3485 | DOW CORNING CORP.<br>DOW CHEMICAL CO. | COSTA MESA | CA |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| | CORNING GLASS WORKS | TRUMBULL | CT |
| 3475 | DOW CORNING CORP. | | |
| | DOW CHEMICAL CO. | | |
| | CORNING GLASS WORKS | | |
| 3495 | DUTCH BOY, INC. | BALTIMORE | MD |
| 3490 | DYE SPECIALTIES, INC. | JERSEY CITY | NJ |
| 3510 | EASTERN COLOR & CHEM. CO. | PROVIDENCE | RI |
| 3515 | EASTERN GAS & FUEL ASSOCIATES | PHILADELPHIA | PA |
| | EASTERN ASSOCIATED COAL CORP. | | |
| 3535 | EASTMAN CHEMICAL PRODUCTS, INC. | ROCHESTER | NY |
| 3530 | EASTMAN CHEM. PRODUCTS, INC. | COLUMBIA | SC |
| | EASTMAN KODAK CO. | | |
| 3550 | EASTMAN CHEM. PRODUCTS, INC. | LONGVIEW | TX |
| | EASTMAN KODAK CO. | | |
| 3540 | EASTMAN CHEM. PRODUCTS, INC. | KINGSPORT | TN |
| | EASTMAN KODAK CO. | | |
| 3525 | EASTMAN KODAK CO. | WINDSOR | CO |
| 3520 | EASTMAN KODAK CO. | ROCHESTER | NY |
| 3555 | EASTMAN ORGANIC CHEMS. | ROCHESTER | NY |
| | EASTMAN KODAK CO. | | |
| 3990 | EL PASO PRODUCTS CO. | ODESSA | TX |
| | EL PASO NATURAL GAS CO. | | |
| 3980 | EL PASO PRODUCTS CO. | CORPUS CHRISTI | TX |
| 4000 | ELI LILLY AND CO. | LAFAYETTE | IN |
| 4040 | EMERY INDUST., INC. | CITY OF COMMERCE | CA |
| | NATIONAL DISTILLERS & CHEM. CORP. | | |
| 4050 | EMERY INDUST., INC. | CINCINNATI | OH |
| | NATIONAL DISTILLERS & CHEM. CORP. | | |
| 4080 | EMKAY CHEMICAL CO. | ELIZABETH | NJ |
| 4075 | EMPIRE COKE CO. | HOLT | AL |
| 4090 | ENERGY COOPERATIVE, INC. | EAST CHICAGO | IN |
| 4120 | ENTERPRISE PETROCHEMICALS CO. | HOUSTON | TX |
| | ENTERPRISE PRODUCTS CO. | | |
| | HERCULES INC. | MERTON | WI |
| 4135 | ESSENTIAL CHEMS. CORP. | SAYREVILLE | NJ |
| 4140 | ESSEX CHEM. CORP. | BEAUMONT | TX |
| 4130 | ESTECH GENERAL CHEMICALS CORP. | | |
| | ESMARK, INC. | MAGNOLIA | AR |
| 4150 | ETHYL CORP. | ORANGEBURG | SC |
| 4170 | ETHYL CORP. | PASADENA | TX |
| 4180 | ETHYL CORP. | BATON ROUGE | LA |
| 4160 | ETHYL CORP. | FORT WORTH | TX |
| 4185 | EXPANDABLE TECHNOLOGIES INC. | BATON ROUGE | LA |
| 4190 | EXXON CORP. | BAYTOWN | TX |
| 4220 | EXXON CORP. | BAYWAY | NJ |
| 4210 | EXXON CORP. | TECUMSEH | KS |
| 3840 | E. I. DU PONT DE NEMOURS & CO., INC. | SAUGUS | CA |
| 3760 | E. I. DU PONT DE NEMOURS & CO., INC. | SEAFORD | DE |
| 3800 | E. I. DU PONT DE NEMOURS & CO., INC. | MEMPHIS | TN |
| 3680 | E. I. DU PONT DE NEMOURS & CO., INC. | FAIRFIELD | CT |
| 3780 | E. I. DU PONT DE NEMOURS & CO., INC. | KINSTON | NC |
| 3860 | E. I. DU PONT DE NEMOURS & CO., INC. | NEWARK | DE |
| 3790 | E. I. DU PONT DE NEMOURS & CO., INC. | LINDEN | NJ |
| 3650 | E. I. DU PONT DE NEMOURS & CO., INC. | | |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 3920 | E. I. DU PONT DE NEMOURS & CO., INC. | CHATTANOOGA | TN |
| 3640 | E. I. DU PONT DE NEMOURS & CO., INC. | GIBBSTOWN | NJ |
| 3810 | E. I. DU PONT DE NEMOURS & CO., INC. | CLINTON | IA |
| 3620 | E. I. DU PONT DE NEMOURS & CO., INC. | HEALING SPRINGS | NC |
| 3830 | E. I. DU PONT DE NEMOURS & CO., INC. | SENECA | IL |
| 3660 | E. I. DU PONT DE NEMOURS & CO., INC. | NIAGARA FALLS | NY |
| 3730 | E. I. DU PONT DE NEMOURS & CO., INC. | VICTORIA | TX |
| 3720 | E. I. DU PONT DE NEMOURS & CO., INC. | ORANGE | TX |
| 3590 | E. I. DU PONT DE NEMOURS & CO., INC. | LAPLACE | LA |
| 3580 | E. I. DU PONT DE NEMOURS & CO., INC. | LOUISVILLE | KY |
| 3560 | E. I. DU PONT DE NEMOURS & CO., INC. | ANTIOCH | CA |
| 3960 | E. I. DU PONT DE NEMOURS & CO., INC. | PARKERSBURG | WV |
| 3670 | E. I. DU PONT DE NEMOURS & CO., INC. | TOLEDO | OH |
| 3820 | E. I. DU PONT DE NEMOURS & CO., INC. | CHICAGO | IL |
| 3940 | E. I. DU PONT DE NEMOURS & CO., INC. | MARTINSVILLE | VA |
| 3930 | E. I. DU PONT DE NEMOURS & CO., INC. | OLD HICKORY | TN |
| 3710 | E. I. DU PONT DE NEMOURS & CO., INC. | LA PORTE | TX |
| 3910 | E. I. DU PONT DE NEMOURS & CO., INC. | CAMDEN | SC |
| 3850 | E. I. DU PONT DE NEMOURS & CO., INC. | FLINT | MI |
| 3630 | E. I. DU PONT DE NEMOURS & CO., INC. | DEEPWATER POINT | NJ |
| 3750 | E. I. DU PONT DE NEMOURS & CO., INC. | BELLE | WV |
| 3610 | E. I. DU PONT DE NEMOURS & CO., INC. | WILMINGTON | NC |
| 3570 | E. I. DU PONT DE NEMOURS & CO., INC. | EAST CHICAGO | IN |
| 3865 | E. I. DU PONT DE NEMOURS & CO., INC. | FORT MADISON | IA |
| 3880 | E. I. DU PONT DE NEMOURS & CO., INC. | PARLIN | NJ |
| 3700 | E. I. DU PONT DE NEMOURS & CO., INC. | CORPUS CHRISTI | TX |
| 3770 | E. I. DU PONT DE NEMOURS & CO., INC. | SOUTH SAN FRANCISCO | CA |
| 3890 | E. I. DU PONT DE NEMOURS & CO., INC. | CIRCLEVILLE | OH |
| 3690 | E. I. DU PONT DE NEMOURS & CO., INC. | BEAUMONT | TX |
| 3950 | E. I. DU PONT DE NEMOURS & CO., INC. | RICHMOND | VA |
| 3635 | E. I. DU PONT DE NEMOURS & CO., INC. | DEEPWATER | NJ |
| 3600 | E. I. DU PONT DE NEMOURS & CO., INC. | MONTAGUE | MI |
| 3900 | E. I. DU PONT DE NEMOURS & CO., INC. | PHILADELPHIA | PA |
| 3869 | E. I. DU PONT DE NEMOURS & CO., INC. | BUFFALO | NY |
| 3867 | E. I. DU PONT DE NEMOURS & CO., INC. | TUCKER | GA |
| 3740 | E. I. DU PONT DE NEMOURS & CO., INC. | WAYNESBORO | VA |
| 3870 | E. I. DU PONT DE NEMOURS & CO., INC. | CARNEYS POINT | NJ |
| 3637 | E. I. DU PONT DE NEMOURS & CO., INC. | DEER PARK | TX |
| 4111 | E. R. CARPENTER CO., INC. | CONOVER | NC |
| 4115 | E. R. CARPENTER CO., INC. | TEMPLE | TX |
| 4116 | E. R. CARPENTER CO., INC. | TUPELO | MS |
| 4114 | E. R. CARPENTER CO., INC. | RUSSELLVILLE | KY |
| 4112 | E. R. CARPENTER CO., INC. | LA MIRADA | CA |
| 4113 | E. R. CARPENTER CO., INC. | RICHMOND | VA |
| 11625 | E.B. & A.C.WHITING CO.<br>TEXON, INC. | BURLINGTON | VT |
| 5742 | E.F. HOUGHTON & COMPANY | PHILADELPHIA | PA |
| 3645 | E.I. DU PONT DE NEMOURS & CO., INC. | BREVARD | NC |
| 3665 | E.I. DU PONT DE NEMOURS & CO., INC. | FLORENCE | SC |
| 3605 | E.I. DU PONT DE NEMOURS & CO., INC. | CHARLESTON | SC |
| 4230 | FAIRMOUNT CHEM. CO., INC. | NEWARK | NJ |
| 4270 | FARMLAND INDUSTRIES, INC. | DODGE CITY | KS |
| 2760 | FARMLAND INDUSTRIES, INC. | LAWRENCE | KS |
| 4275 | FARMLAND INDUSTRIES, INC. | GREEN BAY | FL |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 4280 | FELTON INTERNATIONAL INC. | BROOKLYN | NY |
| 4300 | FERRO CORP. | BATON ROUGE | LA |
| 4290 | FERRO CORP. | SANTA FE SPRINGS | CA |
| 4310 | FERRO CORP. | TOLEDO | OH |
| 4340 | FIBER INDUST., INC.<br>CELANESE CORP.<br>IMPERIAL CHEMICAL INDUSTRIES LTD. | DARLINGTON | SC |
| 4330 | FIBER INDUST., INC.<br>CELANESE CORP.<br>IMPERIAL CHEMICAL INDUSTRIES LTD. | SHELBY | NC |
| 4320 | FIBER INDUST., INC.<br>CELANESE CORP.<br>IMPERIAL CHEMICAL INDUSTRIES LTD. | SALISBURY | NC |
| 4350 | FIBER INDUST., INC.<br>CELANESE CORP.<br>IMPERIAL CHEMICAL INDUSTRIES LTD. | GREENVILLE | SC |
| 4355 | FIBERITE CORP. | WINONA | MN |
| 4360 | FIKE CHEMICALS, INC. | NITRO | WV |
| 4365 | FINETEX INC. | ELMWOOD PARK | NJ |
| 4370 | FIRESTONE TIRE & RUBBER CO., THE | ORANGE | TX |
| 4371 | FIRESTONE TIRE & RUBBER CO., THE | CONOVER | NC |
| 4400 | FIRESTONE TIRE & RUBBER CO., THE | HOPEWELL | VA |
| 4373 | FIRESTONE TIRE & RUBBER CO., THE | ELKHART | IN |
| 4374 | FIRESTONE TIRE & RUBBER CO., THE | MILAN | TN |
| 4372 | FIRESTONE TIRE & RUBBER CO., THE | CORRY | PA |
| 4410 | FIRST CHEM. CORP.<br>FIRST MISSISSIPPI CORP. | PASCAGOULA | MS |
| 4415 | FLAMBEAU PAPER CO.<br>PENTAIR, INC. | PARK FALLS | WI |
| 4420 | FLAMEMASTER CORP., THE | SUN VALLEY | CA |
| 4440 | FMC CORP. | BALTIMORE | MD |
| 4450 | FMC CORP. | MIDDLEPORT | NY |
| 4500 | FMC CORP. | SOUTH CHARLESTON | WV |
| 4480 | FMC CORP. | BAYPORT | TX |
| 4510 | FORD MOTOR CO. | MT. CLEMENS | MI |
| 4505 | FORD MOTOR CO. | ROUGE | MI |
| 590 | FORMICA CORP.<br>AMERICAN CYANAMID CO. | EVANDALE | OH |
| 4530 | FOY-JOHNSTON, INC. | CINCINNATI | OH |
| 4540 | FRANK ENTERPRISES | COLUMBUS | OH |
| 4550 | FRANKLIN CHEM. CO. | COLUMBUS | OH |
| 5760 | FREEMAN CHEM. CORP.<br>H. H. ROBERTSON CO. | SAUKVILLE | WI |
| 5745 | FREEMAN CHEM. CORP.<br>H. H. ROBERTSON CO. | BURLINGTON | IA |
| 5750 | FREEMAN CHEM. CORP.<br>H. H. ROBERTSON CO. | CHATHAM | VA |
| 4560 | FRITZSCHE DODGE & OLCOTT INC. | EAST HANOVER | NJ |
| 4600 | GAF CORP. | LINDEN | NJ |
| 4590 | GAF CORP. | CALVERT CITY | KY |
| 4605 | GAF CORP. | TEXAS CITY | TX |
| 4650 | GENERAL ELECTRIC CO. | PITTSFIELD | MA |
| 4640 | GENERAL ELECTRIC CO. | MOUNT VERNON | IN |
| 4635 | GENERAL ELECTRIC CO. | CHELSEA | MA |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 4680 | GENERAL ELECTRIC CO. | WATERFORD | NY |
| 4670 | GENERAL ELECTRIC CO. | SELKIRK | NY |
| 4660 | GENERAL ELECTRIC CO. | SCHENECTADY | NY |
| 4690 | GENERAL ELECTRIC CO. | COSHOCTON | OH |
| 4710 | GENERAL TIRE & RUBBER CO., THE | POINT PLEASANT | WV |
| 4700 | GENERAL TIRE & RUBBER CO., THE | ASHTABULA | OH |
| 4740 | GEN. LATEX AND CHEM. CORP. | CAMBRIDGE | MA |
| 4730 | GEN. LATEX AND CHEM. CORP. | DALTON | GA |
| 4750 | GEN. LATEX AND CHEM. CORP. | CHARLOTTE | NC |
| 4720 | GEN. LATEX AND CHEM. CORP. | CUCAMONGA | CA |
| 4760 | GEN. LATEX AND CHEM. CORP. | ASHLAND | OH |
| 4765 | GEN. MOTORS CORP. | DAYTOWN | OH |
| 4773 | GEN. TIRE & RUBBER CO., THE | ORANGE | CA |
| 4772 | GEN. TIRE & RUBBER CO., THE | NEWNAN | GA |
| 4771 | GEN. TIRE & RUBBER CO., THE | MARION | IN |
| 4875 | GEORGIA-PACIFIC CORP | HOUSTON | TX |
| 4905 | GEORGIA-PACIFIC CORP. | SAVANNAH | GA |
| 4820 | GEORGIA-PACIFIC CORP. | PLAQUEMINE | LA |
| 4880 | GEORGIA-PACIFIC CORP. | COOS BAY | OR |
| 4840 | GEORGIA-PACIFIC CORP. | TAYLORSVILLE | MS |
| 4860 | GEORGIA-PACIFIC CORP. | COLUMBUS | OH |
| 4910 | GEORGIA-PACIFIC CORP. | BELLINGHAM | WA |
| 4790 | GEORGIA-PACIFIC CORP. | UKIAH | CA |
| 4870 | GEORGIA-PACIFIC CORP. | ALBANY | OR |
| 4890 | GEORGIA-PACIFIC CORP. | RUSSELLVILLE | SC |
| 4900 | GEORGIA-PACIFIC CORP. | LUFKIN | TX |
| 4780 | GEORGIA-PACIFIC CORP. | CROSSETT | AR |
| 4795 | GEORGIA-PACIFIC CORP. | PAINESVILLE | OH |
| 4810 | GEORGIA-PACIFIC CORP. | VIENNA | GA |
| 4850 | GEORGIA-PACIFIC CORP. | CONWAY | NC |
| 4830 | GEORGIA-PACIFIC CORP. | LOUISVILLE | MS |
| 4800 | GEORGIA-PACIFIC CORP. | PORT WENTWORTH | GA |
| 4940 | GETTY REFINING AND MARKETING CO.<br>GETTY OIL CO. | EL DORADO | KS |
| 4930 | GETTY REFINING AND MARKETING CO.<br>GETTY OIL CO.<br>UNION OIL OF CALIFORNIA-NAPTHALENE-J.V.<br>AIR PRODUCTS AND CHEMS.-PROPYLENE | DELAWARE CITY | DE |
| 4990 | GIVAUDAN CORP. | CLIFTON | NJ |
| 4973 | GLADDING CORP. | SOUTH OTSELIC | NY |
| 4975 | GLOVER M. BIRK | NEW ALBANY | IN |
| 5000 | GOODPASTURE, INC. | DIMMITT | TX |
| 5015 | GOODYEAR TIRE & RUBBER CO., THE | BAKERSFIELD | CA |
| 5045 | GOODYEAR TIRE & RUBBER CO., THE | ST. MARYS | OH |
| 5060 | GOODYEAR TIRE & RUBBER CO., THE | AKRON | OH |
| 5035 | GOODYEAR TIRE & RUBBER CO., THE | LUCKEY | OH |
| 5050 | GOODYEAR TIRE & RUBBER CO., THE | NIAGARA FALLS | NY |
| 5070 | GOODYEAR TIRE & RUBBER CO., THE | POINT PLEASANT | WV |
| 5025 | GOODYEAR TIRE & RUBBER CO., THE | LOGAN | OH |
| 5040 | GOODYEAR TIRE & RUBBER CO., THE | PLAQUEMINE | LA |
| 5010 | GOODYEAR TIRE & RUBBER CO., THE | BAYPORT | TX |
| 5030 | GOODYEAR TIRE & RUBBER CO., THE | SCOTTSBORO | AL |
| 5020 | GOODYEAR TIRE & RUBBER CO., THE | BEAUMONT | TX |
| 5080 | GRAIN PROCESSING CORP. | MUSCATINE | IA |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 5090 | GREAT AMERICAN CHEM. CORP. | FITCHBURG | MA |
| 5095 | GREAT LAKES CARBON CORP. | ST. LOUIS | MO |
| 5100 | GREAT LAKES CHEMICAL CORP. | EL DORADO | AR |
| 5110 | GREAT NORTHERN PAINT & CHEM. CORP. | EAST PATERSON | NJ |
| 5120 | GREAT NORTHERN PAINT & CHEM. CORP. | LODI | NJ |
| 5085 | GRESTCO DYES & CHEMS., INC. | LONG ISLAND CITY | NY |
| 5130 | GRIFFIX CHEMICAL CO. | OPELIKA | AL |
| | WEST POINT-PEPPERELL, INC. | ST. LOUIS | MO |
| 5150 | GROW CHEMICAL CORP. | HAUPPAUGE | NY |
| 5160 | GUARDIAN CHEMICAL CORP. | GRAND RAPIDS | MI |
| 5170 | GUARDSMAN CHEMS., INC. | GAINESVILLE | GA |
| 5171 | GUILFORD MILLS, INC. | ORANGE | TX |
| 5230 | GULF OIL CORP. | PHILADELPHIA | PA |
| 5280 | GULF OIL CORP. | MILITARY | KS |
| 5190 | GULF OIL CORP. | ST. JAMES | LA |
| 5175 | GULF OIL CORP. | ALLIANCE | LA |
| 5250 | GULF OIL CORP. | WEST MEMPHIS | AR |
| 5180 | GULF OIL CORP. | HIGH POINT | NC |
| 5210 | GULF OIL CORP. | MARIETTA | OH |
| 5205 | GULF OIL CORP. | CEDAR BAYOU | TX |
| 5290 | GULF OIL CORP. | SHAWANO | WI |
| 5240 | GULF OIL CORP. | LANSDALE | PA |
| 5220 | GULF OIL CORP. | VICKSBURG | MS |
| 5270 | GULF OIL CORP. | ALEXANDRIA | LA |
| 5200 | GULF OIL CORP. | PORT ARTHUR | TX |
| 5300 | GULF OIL CORP. | TOTOWA | NJ |
| 5330 | H & N CHEM. CO. | BLUE ISLAND | IL |
| 5233 | HAAG LABORATORIES, INC. | | IL |
| | MILLMASTERONYX-KEWANEE-GULF | RIVERDALE | OH |
| 5385 | HANDSCHY CHEM. CO. | COLUMBUS | AL |
| 5350 | HANNA CHEM. COATINGS CORP. | BIRMINGHAM | |
| 5340 | HANNA CHEM. COATINGS CO. | | NC |
| | HANNA CHEM. COATINGS CORP. | YANCEYVILLE | |
| 4250 | HANOVER MILLS, INC. | | NJ |
| | FALK FIBERS & FABRICS INC. | BELLEVILLE | SC |
| 5360 | HARDMAN INC. | ELGIN | NJ |
| 5370 | HARDWICKE CHEMICAL CO. | HALEDON | |
| 5380 | HARMON COLORS CORP. | | OH |
| | BAYER AG | ELYRIA | |
| 5183 | HARSHAW CHEM. CO. | | OH |
| | GULF OIL CORP. | CLEVELAND | |
| 5185 | HARSHAW CHEM. CO. | | NY |
| | GULF OIL CORP. | BROOKLYN | NJ |
| 5395 | HARSTAN CHEM. CORP. | JERSEY CITY | NJ |
| 5390 | HART PRODUCTS CORP. | FORDS | DE |
| 5397 | HATCO CHEMICAL CORP. | WILMINGTON | |
| 5645 | HAVEG INDUST., INC. | | PA |
| | HERCULES INC. | PHILADELPHIA | IA |
| 5400 | HAVEN INDUST., INC. | CLINTON | |
| 4915 | HAWKEYE CHEM. CO. | | PA |
| | GETTY OIL CO. | DELAWARE WATER GAP | TX |
| 5440 | HEICO, INC. | BAYTOWN | CA |
| 5450 | HELMERICH AND PAYNE, INC. | HAWTHORNE | |
| 5460 | HENKEL INC. | | |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 5465 | HENKEL INC. | KANKAKEE | IL |
| 5480 | HERCOFINA | PLAQUEMINE | LA |
| | AMERICAN PETROFINA, INC. | | |
| | HERCULES INC. | | |
| 5495 | HERCOFINA | PORT ARTHUR | TX |
| | AMERICAN PETROFINA, INC. | | |
| | HERCULES INC. | | |
| 5485 | HERCOFINA | BIG SPRING | TX |
| | AMERICAN PETROFINA, INC. | | |
| | HERCULES INC. | | |
| 5490 | HERCOFINA | WILMINGTON | NC |
| | AMERICAN PETROFINA, INC. | | |
| | HERCULES INC. | | |
| 5510 | HERCOR CHEMICAL CORP. | PENUELAS | PR |
| | COMMONWEALTH OIL REFINING CO., INC. | | |
| | HERCOFINA | | |
| 5660 | HERCULES INC. | GIBBSTOWN | NJ |
| 5600 | HERCULES INC. | CHICOPEE | MA |
| 5540 | HERCULES INC. | WEST ELIZABETH | PA |
| 5670 | HERCULES INC. | PARLIN | NJ |
| 5680 | HERCULES INC. | GLENS FALLS | NY |
| 5550 | HERCULES INC. | BAYPORT | TX |
| 5630 | HERCULES INC. | HATTIESBURG | MS |
| 5610 | HERCULES INC. | HARBOR BEACH | MI |
| 5520 | HERCULES INC. | BATON ROUGE | LA |
| 5580 | HERCULES INC. | SAVANNAH | GA |
| 5710 | HERCULES INC. | HOPEWELL | VA |
| 5620 | HERCULES INC. | LOUISIANA | MO |
| 5720 | HERCULES INC. | MILWAUKEE | WI |
| 5690 | HERCULES INC. | PORTLAND | OR |
| 5570 | HERCULES INC. | BRUNSWICK | GA |
| 5530 | HERCULES INC. | LAKE CHARLES | LA |
| 5640 | HERCULES INC. | WILMINGTON | NC |
| 5700 | HERCULES INC. | CLAIRTON | PA |
| 5730 | HERESITE-SAEKAPHEN, INC. | MANITOWOC | WI |
| | SAEKAPHEN | | |
| 550 | HESS OIL VIRGIN ISLANDS CORP. | ST. CROIX | VI |
| | AMERADA HESS CORP. | | |
| 5740 | HEXCEL CORP. | CHATSWORTH | CA |
| 5756 | HILL & GRIFFITH CO. | HICKORY | NC |
| 5770 | HODAG CHEMICAL CORP. | SKOKIE | IL |
| 5775 | HOFFMAN-LA ROCHE, INC. | NUTLEY | NJ |
| | HOFFMAN-LA ROCHE & CO. AG | | |
| 4375 | HOOKER CHEMICAL CORP. | ADDIS | LA |
| 4380 | HOOKER CHEMICAL CORP. | PERRYVILLE | MD |
| 4390 | HOOKER CHEMICAL CORP. | POTTSTOWN | PA |
| 7790 | HOOKER CHEMICAL CORP. | MONTAGUE | MI |
| | OCCIDENTAL PETROLEUM CORP. | | |
| 7820 | HOOKER CHEMICAL CORP. | NIAGARA FALLS | NY |
| | OCCIDENTAL PETROLEUM CORP. | | |
| 7780 | HOOKER CHEMICAL CORP. | TAFT | LA |
| | OCCIDENTAL PETROLEUM CORP. | | |
| 7830 | HOOKER CHEMICAL CORP. | NORTH TONAWANDA | NY |
| | OCCIDENTAL PETROLEUM CORP. | | |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 7840 | HOOKER CHEMICAL CORP.<br>OCCIDENTAL PETROLEUM CORP. | KENTON | OH |
| 7850 | HOOKER CHEMICAL CORP.<br>OCCIDENTAL PETROLEUM CORP. | ARECIBO | PR |
| 5780 | HOWERTON GOWEN CHEMICALS, INC. | ROANOKE RAPIDS | NC |
| 5790 | HUGH J.-RESINS CO. | LONG BEACH | CA |
| 5800 | HUMMEL CHEM. CO., INC. | SOUTH PLAINFIELD | NJ |
| 5810 | HUMPHREY CHEMICAL CO., THE | NORTH HAVEN | CT |
| 5815 | HUNTSMAN-GOODSON CHEM. CORP. | TROY | OH |
| 5430 | H. B. FULLER CO. | BLUE ASH | OH |
| 5420 | H. B. FULLER CO. | EDISON | NJ |
| 5410 | H. B. FULLER CO. | ATLANTA | GA |
| 5310 | H. KOHNSTAMM & CO., INC. | CLEARING | IL |
| 5320 | H. KOHNSTAMM & CO., INC. | CAMDEN | NJ |
| 660 | I R C FIBERS CO.<br>AMERICAN CYANAMID CO. | PAINESVILLE | OH |
| 5845 | ICI AMERICAS INC.<br>IMPERIAL CHEMICAL INDUSTRIES LTD | BATON ROUGE | LA |
| 5840 | ICI AMERICAS INC.<br>IMPERIAL CHEMICAL INDUSTRIES LTD. | NEW CASTLE | DE |
| 6040 | IMC CHEM. GROUP, INC.<br>INTERNATIONAL MINERALS & CHEM. CORP. | SEIPLE | PA |
| 6010 | IMC CHEM. GROUP, INC.<br>INTERNATIONAL MINERALS & CHEM. CORP. | TERRE HAUTE | IN |
| 6020 | IMC CHEM. GROUP, INC.<br>INTERNATIONAL MINERALS & CHEM. CORP. | STERLINGTON | LA |
| 5832 | IMC INDUSTRY GROUP, INC.<br>INTERNATIONAL MINERALS & CHEMICAL CORP. | DETROIT | MI |
| 6000 | IMC INDUSTRY GROUP, INC.<br>INTERNATIONAL MINERALS & CHEM. CORP. | CARPENTERSVILLE | IL |
| 5860 | INDEPENDENT REFINING CORP. | WINNIE | TX |
| 5865 | INDIANA GAS & CHEM. CORP. | TERRE HAUTE | IN |
| 5870 | INDPOL | CUCAMONGA | CA |
| 5880 | INLAND CHEMICAL CORP. | MANATI | PR |
| 5895 | INLAND CHEMICAL CORP. | NEWARK | NJ |
| 5900 | INLAND STEEL CO. | ALSIP | IL |
| 5905 | INLAND STEEL CO. | INDIANA HARBOR | IN |
| 5930 | INMONT CORP.<br>CARRIER CORP. | GRAND RAPIDS | MI |
| 5910 | INMONT CORP.<br>CARRIER CORP. | ANAHEIM | CA |
| 5940 | INMONT CORP.<br>CARRIER CORP. | CINCINNATI | OH |
| 5950 | INMONT CORP.<br>CARRIER CORP. | GREENVILLE | OH |
| 5920 | INMONT CORP.<br>CARRIER CORP. | DETROIT | MI |
| 5960 | INSILCO CORP. | LOS ANGELES | CA |
| 5970 | INSILCO CORP. | WHEELING | IL |
| 5990 | INTERLAKE, INC. | TOLEDO | OH |
| 5980 | INTERLAKE, INC. | CHICAGO | IL |
| 5993 | INTERNATIONAL HARVESTER CO. | SOUTH CHICAGO | IL |
| 6050 | INTERNAT'L FLAVORS & FRAGRANCES, INC. | UNION BEACH | NJ |
| 6055 | INTERPLASTIC CORP. | MINNEAPOLIS | MN |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 6052 | INTERPLASTIC CORP. | PRYOR | OK |
| 5994 | INTERSTAB CHEMICALS INC<br>AKZO NV | NEW BRUNSWICK | NJ |
| 6057 | IOVITE CHEMS., INC. | MATTESON | IL |
| 6060 | IRONSIDES CO., THE | COLUMBUS | OH |
| 6080 | ISOCHEM RESINS CO. | LINCOLN | RI |
| 6140 | JIM WALTER RESOURCES, INC.<br>JIM WALTER CORPORATION | BIRMINGHAM | AL |
| 6150 | JOC OIL, INC. | HOUSTON | TX |
| 6170 | JOHN L. ARMITAGE & CO. | ELK GROVE VILLAGE | IL |
| 6180 | JOHN L. ARMITAGE & CO. | NEWARK | NJ |
| 6160 | JOHN L. ARMITAGE & CO. | RICHMOND | CA |
| 6203 | JOHNSON FILAMENTS | WILLISTON | VT |
| 6578 | JONES & LAUGHLIN STEEL CORP.<br>LTV CORP. | INDIANA HARBOR | IN |
| 6195 | JONES & LAUGHLIN STEEL CORP.<br>LTV CORP. | PITTSBURGH | PA |
| 6190 | JONES & LAUGHLIN STEEL CORP.<br>LTV CORP. | ALIQUIPA | PA |
| 6577 | JONES & LAUGHLIN STEEL CORP.<br>LTV CORP. | CAMPBELL | OH |
| 6200 | JONES-BLAIR CO. | DALLAS | TX |
| 6090 | J. R. SIMPLOT CO. | POCATELLO | ID |
| 9180 | J. T. BAKER CHEM. CO.<br>RICHARDSON-MERRELL, INC. | PHILLIPSBURG | NJ |
| 6210 | KAISER ALUMINUM & CHEM. CORP. | SAVANNAH | GA |
| 6208 | KAISER ALUMINUM & CHEM. CORP. | GRAMERCY | LA |
| 6215 | KAISER ALUMINUM & CHEM. CORP. | PRYOR | OK |
| 6205 | KAISER STEEL CORP. | FONTANA | CA |
| 6220 | KALAMA CHEM. INC. | KALAMA | WA |
| 6229 | KAWECKI BERYLCO INDUST., INC.<br>CABOT CORP. | REVERE | PA |
| 6230 | KAYSER-ROTH CORP. | CREEDMORE | NC |
| 6240 | KAY-FRIES CHEMICALS INC.<br>DYNAMIT NOBEL AG<br>TENNANTS CONSOLIDATED | STONY POINT | NY |
| 6250 | KELLY-MOORE PAINT CO. | SAN CARLOS | CA |
| 6310 | KEYSOR CORP. | SAUGUS | CA |
| 6340 | KNOEDLER CHEM. CO.<br>KNOEDLER, ALPHONSE & CO. | LANCASTER | PA |
| 6345 | KOCIDE CHEMICAL CO. | HOUSTON | TX |
| 6350 | KOHLER-MCLISTER PAINT CO. | DENVER | CO |
| 6400 | KOPPERS CO., INC. | OIL CITY | PA |
| 6385 | KOPPERS CO., INC. | RICHMOND | CA |
| 6375 | KOPPERS CO., INC. | OXNARD | CA |
| 6370 | KOPPERS CO., INC. | FONTANA | CA |
| 6410 | KOPPERS CO., INC. | PETROLIA | PA |
| 6360 | KOPPERS CO., INC. | WOODWARD | AL |
| 6420 | KOPPERS CO., INC. | FOLLANSBEE | WV |
| 6390 | KOPPERS CO., INC. | BRIDGEVILLE | PA |
| 6405 | KOPPERS CO., INC. | ST. PAUL | MN |
| 6380 | KOPPERS CO., INC. | CICERO | IL |
| 6430 | KORDELL INDUST. | MISHAWAKA | IN |
| 6440 | KRAFT, INC. | MEMPHIS | TN |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 6320 | K. J. QUINN & CO., INC. | MALDEN | MA |
| 6330 | K. J. QUINN & CO., INC. | SEABROOK | NH |
| 6445 | LACHAT CHEMICALS INC. | MEQUON | WI |
| 6480 | LAWTER CHEMS., INC. | SOUTH KEARNY | NJ |
| 6470 | LAWTER CHEMS., INC. | BENSENVILLE | IL |
| 7580 | LEFFINGWELL CHEM. CO.<br>NORTH AMERICAN PHILIPS CORP. | BREA | CA |
| 6490 | LEVER BROTHERS CO. | LOS ANGELES | CA |
| 6520 | LEVER BROTHERS CO. | ST. LOUIS | MO |
| 6530 | LEVER BROTHERS CO. | EDGEWATER | NJ |
| 6500 | LEVER BROTHERS CO. | HAMMOND | IN |
| 6510 | LEVER BROTHERS CO. | BALTIMORE | MD |
| 6545 | LILLY INDUST. COATINGS, INC. | MONTEBELLO | CA |
| 6543 | LILLY INDUST. COATINGS, INC. | INDIANAPOLIS | IN |
| 5305 | LITHIUM CORP. OF AMERICA, INC.<br>GULF RESOURCES & CHEM. CORP. | BESSEMER CITY | NC |
| 6540 | LOF PLASTIC PRODUCTS<br>LIBBEY-OWENS-FORD CO. | AUBURN | ME |
| 6535 | LONE STAR STEEL CO. | DANGERFIELD | TX |
| 6550 | LONZA INC.<br>LONZA AG | MAPLETON | IL |
| 6555 | LONZA INC.<br>LONZA AG | BAYPORT | TX |
| 6560 | LORD CORP. | SAEGERTOWN | PA |
| 6570 | LUBRIZOL CORP., THE | DEER PARK | TX |
| 6565 | LUBRIZOL CORP.,THE | PORT ARTHUR | TX |
| 6580 | MACKENZIE CHEMICAL WORKS, INC. | CENTRAL ISLIP | NY |
| 6590 | MAGNA CORP.<br>BAKER INTERNATIONAL CORP. | HOUSTON | TX |
| 6585 | MAGNESIUM ELEKTRON, INC.<br>MAGNESIUM ELEKTRON LIMITED | FLEMINGTON | NJ |
| 6595 | MAK CHEM. CO. | MUNCIE | IN |
| 6600 | MALLINCKRODT, INC. | ST. LOUIS | MO |
| 6610 | MALLINCKRODT, INC. | RALEIGH | NC |
| 6605 | MALLINCKRODT, INC. | ERIE | PA |
| 6620 | MALLINCKRODT, INC. | LODI | NJ |
| 6625 | MALLINCKRODT, INC. | JERSEY CITY | NJ |
| 6630 | MAMECO INTERNAT'L | CLEVELAND | OH |
| 6640 | MARATHON OIL CO. | ROBINSON | IL |
| 6650 | MARATHON OIL CO. | DETROIT | MI |
| 6660 | MARATHON OIL CO. | TEXAS CITY | TX |
| 6665 | MARS CHEMICAL CORP.<br>AZS CORP. | ATLANTA | GA |
| 6670 | MARTIN MARIETTA CHEMICALS<br>MARTIN MARIETTA CORP. | SODYECO | NC |
| 6680 | MASONITE CORP. | GULFPORT | MS |
| 6675 | MATTHEY BISHOP, INC.<br>JOHNSON MATTHEY & CO. LTD. | WINSLOW | NJ |
| 6700 | MCCLOSKEY VARNISH CO. | PORTLAND | OR |
| 6710 | MCCLOSKEY VARNISH CO. | PHILADELPHIA | PA |
| 6690 | MCCLOSKEY VARNISH CO. | LOS ANGELES | CA |
| 6715 | MCGEAN CHEM. CO., INC. | CLEVELAND | OH |
| 6720 | MEAD CORP. | WOODWARD | AL |
| 6730 | MELAMINE CHEMS., INC. | DONALDSONVILLE | LA |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| | ASHLAND OIL, INC. | | |
| | FIRST MISSISSIPPI CORP. | ALBANY | GA |
| 6740 | MERCK & CO., INC. | HOUSTON | TX |
| 6750 | MERICHEM CO. | ATCHINSON | KS |
| 6780 | MIDWEST SOLVENTS CO. INC. | JUNEAU | WI |
| 6785 | MILBREW INC. | LAURENS | SC |
| 6800 | MILLIKEN & CO. | NEWARK | NJ |
| 6810 | MILLMASTER ONYX GROUP | | |
| | KEWANEE INDUST., INC.-GULF OIL GROUP | NORTH SALT LAKE | UT |
| 5235 | MILLMASTER ONYX GROUP | | |
| | KEWANEE INDUST., INC.-GULF OIL CORP. | LINDEN | NJ |
| 5225 | MILLMASTER ONYX GROUP | | |
| | KEWANEE INDUST., INC.-GULF OIL CORP. | BELVIDERE | IL |
| 5215 | MILLMASTER ONYX GROUP | | |
| | KEWANEE INDUST., INC.-GULF OIL CORP. | LYNDHURST | NJ |
| 6290 | MILLMASTER ONYX GROUP | | |
| | KEWANEE INDUST., INC.-GULF OIL CORP. | MILWAUKEE | WI |
| 6815 | MILWAUKEE SOLVAY COKE CO. | CONCORD | NC |
| 6875 | MINERAL RESEARCH AND DEV. CORP. | BALTIMORE | MD |
| 6735 | MINEREC CORP. | CARDOVA | IL |
| 6825 | MINNESOTA MINING AND MANUFACTURING CO. | DECATUR | AL |
| 6820 | MINNESOTA MINING AND MANUFACTURING CO. | ST. PAUL | MN |
| 6830 | MINNESOTA MINING AND MANUFACTURING CO. | GREENVILLE | SC |
| 6817 | MINNESOTA MINING AND MANUFACTURING CO. | COTTAGE GROVE | IL |
| 6835 | MINNESOTA MINING AND MANUFACTURING CO. | YAZOO CITY | MS |
| 6840 | MISSISSIPPI CHEMICAL CORP. | BUSHY PARK | SC |
| 6850 | MOBAY CHEMICAL CORP. | | |
| | BAYER AG | NEW MARTINSVILLE | WV |
| 6880 | MOBAY CHEMICAL CORP. | | |
| | BAYER AG | SANTA ANA | CA |
| 6855 | MOBAY CHEMICAL CORP. | | |
| | BAYER AG | CEDAR BAYOU | TX |
| 6870 | MOBAY CHEMICAL CORP. | | |
| | BAYER AG | BAYTOWN | TX |
| 6860 | MOBAY CHEMICAL CORP. | | |
| | BAYER AG | BAYONNE | NJ |
| 6845 | MOBAY CHEMICAL CORP. | | |
| | BAYER AG | SANTA ANA | CA |
| 3010 | MOBIL OIL CORP. | ROCHESTER | PA |
| 6950 | MOBIL OIL CORP. | | |
| | MOBIL CORP. | KANKAKEE | IL |
| 6900 | MOBIL OIL CORP. | | |
| | MOBIL CORP. | BEAUMONT | TX |
| 6970 | MOBIL OIL CORP. | | |
| | MOBIL CORP. | HOLYOKE | MA |
| 6895 | MOBIL OIL CORP. | | |
| | MOBIL CORP. | PITTSBURGH | PA |
| 6940 | MOBIL OIL CORP. | | |
| | MOBIL CORP. | EDISON | NJ |
| 6910 | MOBIL OIL CORP. | | |
| | MOBIL CORP. | CLEVELAND | OH |
| 6930 | MOBIL OIL CORP. | | |
| | MOBIL CORP. | JOLIET | IL |
| 6885 | MOBIL OIL CORP. | | |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| | MOBIL CORP. | | |
| 6980 | MONOCHEM, INC. | GEISMAR | LA |
| | BORDEN INC. | | |
| | UNIROYAL, INC. | | |
| 6990 | MONOFILAMENTS, INC. | WAYNESBORO | VA |
| 6225 | MONROE CHEM. INC. | EDDYSTONE | PA |
| | KALAMA CHEM. INC. | | |
| 7030 | MONSANTO CO. | DECATUR | AL |
| 7160 | MONSANTO CO. | KEARNY | NJ |
| 7015 | MONSANTO CO. | FAYETTEVILLE | NC |
| 7050 | MONSANTO CO. | LONG BEACH | CA |
| 7040 | MONSANTO CO. | SAND MOUNTAIN | AL |
| 7200 | MONSANTO CO. | CHOCOLATE BAYOU | TX |
| 7170 | MONSANTO CO. | ADDYSTON | OH |
| 7120 | MONSANTO CO. | SPRINGFIELD | MA |
| 7110 | MONSANTO CO. | EVERETT | MA |
| 7210 | MONSANTO CO. | TEXAS CITY | TX |
| 7190 | MONSANTO CO. | GREENWOOD | SC |
| 7090 | MONSANTO CO. | SAUGET | IL |
| 7020 | MONSANTO CO. | ANNISTON | AL |
| 7100 | MONSANTO CO. | LULING | LA |
| 7130 | MONSANTO CO. | TRENTON | MI |
| 7150 | MONSANTO CO. | BRIDGEPORT | NJ |
| 7140 | MONSANTO CO. | ST. LOUIS | MO |
| 7070 | MONSANTO CO. | PENSACOLA | FL |
| 7180 | MONSANTO CO. | EUGENE | OR |
| 7080 | MONSANTO CO. | MUSCATINE | IA |
| 7060 | MONSANTO CO. | SANTA CLARA | CA |
| 7230 | MONTROSE CHEM. CORP. OF CALIFORNIA | TORRANCE | CA |
| | CHRISCRAFT INDUSTRIES INC.-J.V. | | |
| | STAUFFER CHEMICAL CO.-J.V. | | |
| 7240 | MONTROSE CHEM. CORP. OF CALIFORNIA | HENDERSON | NV |
| | CHRISCRAFT INDUSTRIES INC.-J.V. | | |
| | STAUFFER CHEMICAL CO.-J.V. | | |
| 7245 | MOONEY CHEMS., INC. | FRANKLIN | PA |
| 1820 | MORAN PAINT CO. | XENIA | OH |
| | CARBOLINE CO. | | |
| 7250 | MORRIS INDUST. INC. | EAST ST. LOUIS | IL |
| 7260 | MORTON-NORWICH PRODUCTS, INC. | RINGWOOD | IL |
| 7265 | MORTON-NORWICH PRODUCTS, INC. | GREENVILLE | SC |
| 7270 | MORTON-NORWICH PRODUCTS, INC. | NORWICH | NY |
| 7280 | MURRO CHEMICAL CO. | PORTSMOUTH | VA |
| 6573 | M&T CHEMS. INC. | LOS ANGELES | CA |
| | AXCO INDUSTRIES | | |
| 6575 | M. A. BRUDER & SONS, INC. | PHILADELPHIA | PA |
| 7527 | N L INDUSTRIES, INC. | NIAGARA FALLS | NY |
| 7520 | N L INDUST., INC. | PHILADELPHIA | PA |
| 7295 | NALCO CHEMICAL CO. | GARYVILLE | LA |
| 7290 | NALCO CHEMICAL CO. | FREEPORT | TX |
| 7300 | NALCO CHEMICAL CO. | SUGARLAND | TX |
| 7305 | NAPKO CORP. | HOUSTON | TX |
| 7310 | NAPP CHEMICALS, INC. | LODI | NJ |
| 7320 | NATIONAL BIOCHEMICAL CO. | CHICAGO | IL |
| 7340 | NATIONAL CASEIN CO. | TYLER | TX |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 7330 | NATIONAL CASEIN CO. | CHICAGO | IL |
| 7350 | NATIONAL CASEIN OF CALIFORNIA | SANTA ANA | CA |
| 7360 | NATIONAL CASEIN OF NEW JERSEY | RIVERTON | NJ |
| 7380 | NATIONAL DISTILLERS AND CHEMICAL CORP. | DEER PARK | TX |
| 7370 | NATIONAL DISTILLERS AND CHEMICAL CORP. | TUSCOLA | IL |
| 7390 | NATIONAL PETRO CHEMS. CORP. | LA PORTE | TX |
| 7430 | NATIONAL STARCH AND CHEM. CORP. | PLAINFIELD | NJ |
| 7410 | NATIONAL STARCH AND CHEM. CORP. | MEREDOSIA | IL |
| 7400 | NATIONAL STARCH AND CHEM. CORP. | LONG MOTT | TX |
| 7445 | NATIONAL STEEL CORP. | WEIRTON | WV |
| 7440 | NATIONAL STEEL CORP. | GRANITE CITY | IL |
| 7450 | NATIONAL STEEL CORP. | ZUG ISLAND (RIVER ROUGE) | MI |
| 7480 | NECHES BUTANE PRODUCTS CO.<br>BF GOODRICH CO.<br>TEXAS U.S. CHEMICAL CO. | PORT NECHES | TX |
| 7485 | NEPERA CHEM. CO., INC.<br>SCHERING AG | HARRIMAN | NY |
| 2125 | NEVAMAR CORP.<br>CHAGRIN VALLEY CO. LTD. | ODENTON | MD |
| 7490 | NEVILLE CHEM. CO. | ANAHEIM | CA |
| 7500 | NEVILLE CHEM. CO. | NEVILLE ISLAND | PA |
| 260 | NEWTON FILAMENTS, INC.<br>ALBANY INTERNATIONAL CORP. | HOMER | NY |
| 10290 | NILOK CHEMS., INC.<br>STERLING DRUG INC. | MEMPHIS | TN |
| 7510 | NIPRO, INC.<br>DSM NV | AUGUSTA | GA |
| 7540 | NORAC CO., INC., THE | LODI | NJ |
| 7530 | NORAC CO., INC., THE | AZUSA | CA |
| 7550 | NORDA INC. | BOONTON | NJ |
| 7560 | NORRIS PAINT & VARNISH CO. | SALEM | OR |
| 1305 | NORTH AMERICAN RAYON CORP. | ELIZABETHTON | TN |
| 2550 | NORTH CHEM. CO., INC.<br>COLLOIDS, INC. | MARIETTA | GA |
| 7600 | NORTHEASTERN LABS. CO., INC. | MELVILLE | NY |
| 7620 | NORTHERN PETROCHEM. CO.<br>NORTHERN NATURAL GAS CO. | MORRIS | IL |
| 7625 | NORTHWESTERN REFINING CO.<br>ASHLAND OIL, INC. | ST. PAUL PARK | MN |
| 220 | NOURY CHEM. CORP.<br>AKZONA INC. | BURT | NY |
| 8760 | NUECES PETROCHEMICAL CO.<br>HOWELL CORPORATION<br>QUINTANA REFINERY CO. | CORPUS CHRISTI | TX |
| 7710 | NYANZA INC. | ASHLAND | MA |
| 7720 | NYLENE | JENKINSVILLE | SC |
| 310 | NYPEL, INC.<br>ALLIED CHEMICAL CORP. | WEST CONSHOHOCKEN | PA |
| 7730 | N-REN CORP. | PRYOR | OK |
| 7735 | N-REN CORP. | EAST DUBUQUE | IL |
| 7900 | OLIN CORP. | ROCHESTER | NY |
| 7870 | OLIN CORP. | BRANDENBURG | KY |
| 7860 | OLIN CORP. | COVINGTON | IN |
| 7880 | OLIN CORP. | LAKE CHARLES | LA |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 7890 | OLIN CORP. | PISGAH | NC |
| 7910 | OLIN CORP. | ASHTABULA | OH |
| 7865 | OLIN CORP. | FOGELSVILLE | PA |
| 7930 | ONYX OILS & RESINS, INC. | NEWARK | NJ |
| 7920 | ONYX OILS & RESINS, INC. | BROOKER | FL |
| 7940 | ORBIS PRODUCTS CORP.<br>NORDA INC. | NEWARK | NJ |
| 7960 | OWENS-CORNING FIBERGLAS CORP. | BARRINGTON | NJ |
| 7975 | OWENS-CORNING FIBERGLAS CORP. | WAXAHACHIE | TX |
| 7970 | OWENS-CORNING FIBERGLAS CORP. | NEWARK | OH |
| 7955 | OWENS-CORNING FIBERGLAS CORP. | VALPARAISO | IN |
| 7980 | OWENS-CORNING FIBERGLAS CORP. | ANDERSON | SC |
| 7990 | OWENS-CORNING FIBERGLAS CORP. | KANSAS CITY | KS |
| 7995 | OXIRANE INTERNATIONAL<br>ATLANTIC RICHFIELD CO.<br>HALCON INTERNATIONAL, INC. | CHANNELVIEW | TX |
| 8000 | OXIRANE INTERNATIONAL<br>HALCON INTERNATIONAL, INC.<br>ATLANTIC RICHFIELD CO. | BAYPORT | TX |
| 8010 | OXOCHEM ENTERPRISE | PENUELAS | PR |
| 7770 | O'BRIEN CORP., THE | BALTIMORE | MD |
| 7760 | O'BRIEN CORP., THE | SOUTH BEND | IN |
| 7750 | O'BRIEN CORP., THE | SOUTH SAN FRANCISCO | CA |
| 8025 | PACIFIC ANCHOR CHEM. CORP.<br>ANCHOR CHEMICAL CO. LTD.<br>PVO INTERNATIONAL INC. | LOS ANGELES | CA |
| 11310 | PACIFIC RESINS & CHEMS., INC.<br>UNIVAR CORP. | RICHMOND | CA |
| 11315 | PACIFIC RESINS & CHEMS., INC.<br>UNIVAR CORP. | PEACHTREE CITY | GA |
| 11320 | PACIFIC RESINS & CHEMS., INC.<br>UNIVAR CORP. | NEWARK | OH |
| 11330 | PACIFIC RESINS & CHEMS., INC.<br>UNIVAR CORP. | EUGENE | OR |
| 11340 | PACIFIC RESINS & CHEMS., INC.<br>UNIVAR CORP. | PORTLAND | OR |
| 11335 | PACIFIC RESINS & CHEM., INC.<br>UNIVAR CORP. | TACOMA | WA |
| 8030 | PACIFIC SOAP CO. | VERNON | CA |
| 8060 | PANTASOTE INC. | POINT PLEASANT | WV |
| 8050 | PANTASOTE INC. | PASSAIC | NJ |
| 8070 | PAT-CHEM, INC. | GREENVILLE | SC |
| 8085 | PECK'S PRODUCTS CO.<br>CONSOLIDATED FOODS CORP. | ST. LOUIS | MO |
| 8080 | PELRON CORP. | LYONS | IL |
| 8090 | PENNWALT CORP. | CALVERT CITY | KY |
| 8130 | PENNWALT CORP. | BEAUMONT | TX |
| 8120 | PENNWALT CORP. | GENESEO | NY |
| 8140 | PENNWALT CORP. | GREENS BAYOU | TX |
| 8100 | PENNWALT CORP. | WYANDOTTE | MI |
| 8110 | PENNWALT CORP. | THOROFARE | NJ |
| 8145 | PENNZOIL PRODUCTS CO. | SHREVEPORT | LA |
| 8169 | PERRY & DERRICK CO. | DAYTON | KY |
| 8165 | PERSTORP INC. | TOLEDO | OH |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| | PERSTORP AB | FLORENCE | MA |
| 8160 | PERSTORP INC. | | |
| | PERSTORP AB | LOS ANGELES | CA |
| 8168 | PERVO PAINT CO. | FORT WORTH | TX |
| 2210 | PETROCHEMICALS CO. INC. | | |
| | CHATTEM DRUG & CHEM. CO. | LONG BEACH | CA |
| 2190 | PETROCHEMICALS CO., INC. | | |
| | CHATTEM DRUG & CHEM. CO. | HOUSTON | TX |
| 10660 | PETRO-TEX CHEMICAL CORP. | | |
| | TENNECO INC. | WAUKEGAN | IL |
| 8180 | PFANSTIEHL LABORATORIES, INC. | GREENSBORO | NC |
| 2180 | PFIZER INC | BROOKLYN | NY |
| 2150 | PFIZER INC. | TERRE HAUTE | IN |
| 2170 | PFIZER INC. | GROTON | CT |
| 2160 | PFIZER INC. | FINLEY | WA |
| 8210 | PHILLIPS PACIFIC CHEM. CO. | | |
| | NORTHWEST ENERGY COMPANY | | |
| | PHILLIPS PETROLEUM COMPANY | PHILLIPS | TX |
| 8260 | PHILLIPS PETROLEUM CO. | BORGER | TX |
| 8240 | PHILLIPS PETROLEUM CO. | PASADENA | TX |
| 8250 | PHILLIPS PETROLEUM CO. | BEATRICE | NE |
| 8220 | PHILLIPS PETROLEUM CO. | SWEENY | TX |
| 8270 | PHILLIPS PETROLEUM CO. | GUAYAMA | PR |
| 8230 | PHILLIPS PUERTO RICO CORE INC. | | |
| | PHILLIPS PETROLEUM CO. | ROCKFORD | IL |
| 8280 | PIERCE CHEMICAL CO. | LOCKLAND | OH |
| 8310 | PILOT CHEM. CO. | SANTA FE SPRINGS | CA |
| 8300 | PILOT CHEM. CO. | HOUSTON | TX |
| 8290 | PILOT INDUSTRIES OF TEXAS | | |
| | PILOT CHEM. CO. | AVENEL | NJ |
| 8315 | PILOT LABORATORIES, INC | | |
| | PILOT CHEM. CO. | SAN FRANCISCO | CA |
| 8320 | PIONEER SOAP CO., INC. | SHEBOYGAN | WI |
| 8330 | PLASTICS ENGINEERING CO. | DALLAS | TX |
| 8340 | PLASTICS MFG. CO. | GULFPORT | MS |
| 8345 | PLASTIFAX, INC. | BIRDSBORO | PA |
| 8350 | PLATARIL CO. | | |
| | PLATTE BONN GMBH | | |
| | RILSAN INDUSTRIAL INC. | UNION CITY | CA |
| 8355 | PLEX CHEMICAL CORP. | SUN VALLEY | CA |
| 8360 | POLY RESINS, INC. | SPRINGDALE | CT |
| 8190 | POLYMER INDUST., INC. | | |
| | PHILIP MORRIS, INC. | GREENVILLE | SC |
| 8200 | POLYMER INDUST., INC. | | |
| | PHILIP MORRIS, INC. | FARMINGDALE | NY |
| 8375 | POLYMER MATERIALS, INC. | MIDDLEBURY | VT |
| 8373 | POLYMERS INC. | OAKLAND | CA |
| 8385 | POLYMIR INDUST., INC. | WOODBURY | NJ |
| 8390 | POLYREZ CO., INC. | COPLEY | OH |
| 8405 | POLYSAR GROUP | FOREST CITY | NC |
| 8400 | POLYSAR GROUP | LEOMINSTER | MA |
| 8407 | POLYSAR GROUP | LA PORTE | TX |
| 295 | PPG INDUSTRIES | LAKE CHARLES | LA |
| 8410 | PPG INDUSTRIES, INC. | | |

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CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 8470 | PPG INDUSTRIES, INC. | EAST POINT | GA |
| 8420 | PPG INDUSTRIES, INC. | BARBERTON | OH |
| 8480 | PPG INDUSTRIES, INC. | CIRCLEVILLE | OH |
| 8500 | PPG INDUSTRIES, INC. | OAK CREEK | WI |
| 8440 | PPG INDUSTRIES, INC. | BEAUMONT | TX |
| 8490 | PPG INDUSTRIES, INC. | HOUSTON | TX |
| 8450 | PPG INDUSTRIES, INC. | NATRIUM | WV |
| 8445 | PPG INDUSTRIES, INC. | SPRINGDALE | PA |
| 8460 | PPG INDUSTRIES, INC. | TORRANCE | CA |
| 8510 | PRATT & LAMBERT, INC. | BUFFALO | NY |
| 815 | PRENTISS DRUG & CHEM. CO. | NEWARK | NJ |
| 8610 | PROCTER & GAMBLE CO., THE | DALLAS | TX |
| 8540 | PROCTER & GAMBLE CO., THE | SACRAMENTO | CA |
| 8530 | PROCTER & GAMBLE CO., THE | LONG BEACH | CA |
| 8550 | PROCTER & GAMBLE CO., THE | CHICAGO | IL |
| 8570 | PROCTER & GAMBLE CO., THE | BALTIMORE | MD |
| 8560 | PROCTER & GAMBLE CO., THE | KANSAS CITY | KS |
| 8590 | PROCTER & GAMBLE CO., THE | IVORYDALE | OH |
| 8520 | PROCTER & GAMBLE CO., THE | PORT IVORY | NY |
| 7420 | PROCTOR CHEMICAL COMPANY<br>NATIONAL STARCH AND CHEM. CORP. | SALISBURY | NC |
| 8525 | PROCTOR & GAMBLE CO., THE | IOWA CITY | IA |
| 8625 | PRODUCTS RESEARCH & CHEM. CORP. | GLENDALE | CA |
| 8630 | PUBLICKER INDUSTRIES INC. | GRETNA | LA |
| 8640 | PUBLICKER INDUSTRIES INC. | PHILADELPHIA | PA |
| 8675 | PUREX CORP | SOUTH GATE | CA |
| 8680 | PUREX CORP. | BRISTOL | PA |
| 8665 | PUREX CORP. | ST. LOUIS | MO |
| 8670 | PUREX CORP. | OMAHA | NE |
| 8660 | PUREX CORP. | CARSON | CA |
| 8690 | PVO INTERNATIONAL, INC. | BOONTON | NJ |
| 8020 | P. D. GEORGE CO., THE | ST. LOUIS | MO |
| 8740 | QUAKER OATS CO., THE | MEMPHIS | TN |
| 8750 | QUAKER OATS CO., THE | BAYPORT | TX |
| 8710 | QUAKER OATS CO., THE | BELLE GLADE | FL |
| 8720 | QUAKER OATS CO., THE | CEDAR RAPIDS | IA |
| 8730 | QUAKER OATS CO., THE | OMAHA | NE |
| 8775 | RACON INC. | WICHITA | KS |
| 8780 | RAFFI AND SWANSON, INC. | WILMINGTON | MA |
| 8790 | RAYBESTOS-MANHATTAN, INC. | STRATFORD | CT |
| 8796 | REEVES BROS. INC. | CORNELIUS | NC |
| 8830 | REICHHOLD CHEMS. | CHESWOLD | DE |
| 8900 | REICHHOLD CHEMS. DEL CARIBE, INC.<br>REICHHOLD CHEMS. INC. | RIO PIEDRAS | PR |
| 8870 | REICHHOLD CHEMS., INC. | CARTERET | NJ |
| 8860 | REICHHOLD CHEMS., INC. | GULFPORT | MS |
| 8880 | REICHHOLD CHEMS., INC. | NIAGARA FALLS | NY |
| 8930 | REICHHOLD CHEMS., INC. | MALVERN | AR |
| 8920 | REICHHOLD CHEMS., INC. | TUSCALOOSA | AL |
| 8940 | REICHHOLD CHEMS., INC. | MORRIS | IL |
| 8990 | REICHHOLD CHEMS., INC. | WHITE CITY | OR |
| 9000 | REICHHOLD CHEMS., INC. | HAMPTON | SC |
| 8890 | REICHHOLD CHEMS., INC. | SEWICKLEY | PA |
| 9020 | REICHHOLD CHEMS., INC. | HOUSTON | TX |

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| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 8950 | REICHHOLD CHEMS., INC. | KANSAS CITY | KS |
| 8960 | REICHHOLD CHEMS., INC. | MONCURE | NC |
| 9010 | REICHHOLD CHEMS., INC. | AUSTIN | TX |
| 8800 | REICHHOLD CHEMS., INC. | AZUSA | CA |
| 9030 | REICHHOLD CHEMS., INC. | TACOMA | WA |
| 9025 | REICHHOLD CHEMS., INC. | JACKSONVILLE | FL |
| 8810 | REICHHOLD CHEMS., INC. | SOUTH SAN FRANCISCO | CA |
| 8850 | REICHHOLD CHEMS., INC. | DETROIT | MI |
| 8970 | REICHHOLD CHEMS., INC. | ELIZABETH | NJ |
| 8840 | REICHHOLD CHEMS., INC. | ANDOVER | MA |
| 8910 | REICHHOLD CHEMS., INC. | CHARLOTTE | NC |
| 8980 | REICHHOLD CHEMS., INC. | ST. HELENS | OR |
| 9040 | REILLY TAR & CHEM. CORP. | GRANITE CITY | IL |
| 9060 | REILLY TAR & CHEM. CORP. | CLEVELAND | OH |
| 9050 | REILLY TAR & CHEM. CORP. | INDIANAPOLIS | IN |
| 9070 | RELIANCE UNIVERSAL INC. | LOUISVILLE | KY |
| 2365 | REN PLASTICS<br>CIBA-GEIGY CORP. | EAST LANSING | MI |
| 9100 | REPUBLIC STEEL CORP. | CHICAGO | IL |
| 9110 | REPUBLIC STEEL CORP. | CLEVELAND | OH |
| 9120 | REPUBLIC STEEL CORP. | YOUNGSTOWN | OH |
| 9105 | REPUBLIC STEEL CORP. | WARREN | OH |
| 9085 | REPUBLIC STEEL CORP. | MASSILLON | OH |
| 9090 | REPUBLIC STEEL CORP. | GADSDEN | AL |
| 9095 | REPUBLIC STEEL CORP. | THOMAS | AL |
| 3060 | REXENE COMPANY<br>J.V.-EL PASO PRODUCTS CO. | ODESSA | TX |
| 3015 | REXENE COMPANY<br>J.V.-EL PASO PRODUCTS CO. | BAYPORT | TX |
| 9140 | RHONE-POULENC INC.<br>RHONE-POULENC SA | LAKEWOOD | NJ |
| 9135 | RHONE-POULENC, INC.<br>RHONE POULENC SA | FREEPORT | TX |
| 9160 | RICHARDSON CO., THE | PATERSON | NJ |
| 9150 | RICHARDSON CO., THE | WEST HAVEN | CT |
| 9155 | RICHARDSON CO., THE | LEMONT | IL |
| 9190 | RICHMOND CHEMICAL CO. | RICHMOND | CA |
| 9200 | RICO CHEMS. CORP. | GUAYANILLA | PR |
| 9210 | RIEGEL TEXTILE CORP. | WARE SHOALS | SC |
| 9220 | RILSAN CORP.<br>ATO CHIMIE SA | BIRDSBORO | PA |
| 9230 | RITTER CHEM. CO., INC. | AMSTERDAM | NY |
| 9250 | ROBINSON-WAGNER CO., INC. | MAMARONECK | NY |
| 9270 | ROCKLAND INDUSTRIES, INC. | MIDDLEBORO | MA |
| 9275 | ROCKWELL INTERNATIONAL CORP. | ASHTABULA | OH |
| 9280 | ROGERS CORP. | MANCHESTER | CT |
| 9290 | ROHM AND HAAS CALIFORNIA INC.<br>ROHM AND HAAS CO. | HAYWARD | CA |
| 9300 | ROHM AND HAAS CO. | FAYETTEVILLE | NC |
| 9310 | ROHM AND HAAS CO. | CROYDON | PA |
| 9330 | ROHM AND HAAS CO. | BRISTOL | PA |
| 9340 | ROHM AND HAAS CO. | PHILADELPHIA | PA |
| 9320 | ROHM AND HAAS KENTUCKY INC.<br>ROHM AND HAAS CO. | LOUISVILLE | KY |

ORGANIC CHEMICAL PRODUCERS DATA BASE

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| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 9350 | ROHM AND HAAS TENNESSEE INC.<br>ROHM AND HAAS CO. | KNOXVILLE | TN |
| 9360 | ROHM AND HAAS TEXAS INC.<br>ROHM AND HAAS CO. | DEER PARK | TX |
| 9370 | RUBICON CHEMICALS INC.<br>IMPERIAL CHEMICAL INDUSTRIES LTD.<br>UNIROYAL, INC. | GEISMAR | LA |
| 7800 | RUCO<br>OCCIDENTAL PETROLEUM CORP. | BURLINGTON | NJ |
| 7810 | RUCO<br>OCCIDENTAL PETROLEUM CORP. | HICKSVILLE | NY |
| 7460 | RUETEGERS-NEASE CHEMICAL CO., INC. | ROSS | OH |
| 7470 | RUETEGERS-NEASE CHEMICAL CO., INC. | STATE COLLEGE | PA |
| 8770 | R.S.A. CORP. | ARDSLEY | NY |
| 9380 | SALSBURY LABS. | CHARLES CITY | IA |
| 9396 | SAMUEL BINGHAM CO. | FRANKLIN PARK | IL |
| 9395 | SAPOLIN PAINTS, INC. | BROOKLYN | NY |
| 9400 | SARTOMER INDUSTRIES INC. | WEST CHESTER | PA |
| 9405 | SARTOMER INDUSTRIES INC. | ESSINGTON | PA |
| 9440 | SCHENECTADY CHEMICALS, INC. | OYSTER CREEK | TX |
| 9430 | SCHENECTADY CHEMICALS, INC. | SCHENECTADY | NY |
| 9450 | SCHENECTADY CHEMICALS, INC. | ROTTERDAM JUNCTION | NY |
| 9460 | SCHOLLER BROS. INC. | ELWOOD | NJ |
| 9500 | SCM CORP. | HURON | OH |
| 9470 | SCM CORP. | SAN FRANCISCO | CA |
| 9480 | SCM CORP. | CHICAGO | IL |
| 9510 | SCM CORP. | READING | PA |
| 9550 | SCOTT PAPER CO. | EVERETT | WA |
| 9535 | SCOTT PAPER CO. | FORT WAYNE | IN |
| 9525 | SCOTT PAPER CO. | EDDYSTONE | PA |
| 9520 | SCOTT PAPER CO. | MOBILE | AL |
| 9540 | SCOTT PAPER CO. | CHESTER | PA |
| 9530 | SCOTT PAPER CO. | FORT EDWARD | NY |
| 9560 | SCOTT PAPER CO. | MARINETTE | WI |
| 9570 | SETON CO. | WILMINGTON | DE |
| 9580 | SHAKESPEARE CO. | COLUMBIA | SC |
| 10520 | SHANCO PLASTICS & CHEMS.<br>SYNRES CHEM. CORP.<br>CHEMISCHE INDUSTRIE >SYNRES> BV | KENILWORTH | NJ |
| 7745 | SHARON STEEL CORP.<br>NVF CO. | FAIRMONT | WV |
| 9590 | SHARON STEEL CORP. | FAIRMONT | WV |
| 9610 | SHELL CHEM. CO. | BELPRE | OH |
| 9600 | SHELL CHEM. CO. | WOODBURY | NJ |
| 9650 | SHELL CHEM. CO. | GEISMAR | LA |
| 9670 | SHELL CHEM. CO. | DEER PARK | TX |
| 9660 | SHELL CHEM. CO. | NORCO | LA |
| 9625 | SHELL CHEM. CO. | WILMINGTON | CA |
| 9630 | SHELL CHEM. CO. | MARTINEZ | CA |
| 9620 | SHELL CHEM. CO. | DOMINGUEZ | CA |
| 9640 | SHELL CHEM. CO. | WOOD RIVER | IL |
| 9680 | SHELL CHEM. CO. | ODESSA | TX |
| 9685 | SHELLER-GLOBE CORP. | TUPELO | MS |
| 9690 | SHENANGO INC. | NEVILLE ISLAND | PA |

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| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| | SHENANGO FURNACE CO. | | |
| 9695 | SHEPHERD CHEM. CO., THE | CINCINNATI | OH |
| 1000 | SHEREX CHEMICAL COMPANY INC. | MAPLETON | IL |
| | SCHERING AG | | |
| 1060 | SHEREX CHEMICAL COMPANY INC. | JANESVILLE | WI |
| | SCHERING AG | | |
| 9730 | SHERWIN-WILLIAMS CO., THE | NEWARK | NJ |
| 9705 | SHERWIN-WILLIAMS CO., THE | EMERYVILLE | CA |
| 9740 | SHERWIN-WILLIAMS CO., THE | CLEVELAND | OH |
| 9710 | SHERWIN-WILLIAMS CO., THE | ST. BERNARD | OH |
| 9720 | SHERWIN-WILLIAMS CO., THE | CHICAGO | IL |
| 9735 | SHERWIN-WILLIAMS CO., THE | GARLAND | TX |
| 9750 | SHINTECH INC. | FREEPORT | TX |
| | SHIN-ETSU CHEMICAL INDUSTRY COMPANY LTD. | | |
| 11410 | SIMCAL CHEMICAL CO. | EL CENTRO | CA |
| 9755 | SIMPLOT CO. | POCATELLO | ID |
| 9760 | SIMPSON TIMBER CO. | PORTLAND | OR |
| 9765 | SIMPSON TIMBER CO. | ARCATA | CA |
| 9810 | SMITH CHEM. & COLOR CO., INC. | JAMAICA | NY |
| 9815 | SMOOTH-ON, INC. | GILLETTE | NJ |
| 9830 | SOLTEX POLYMER CORP. | DEER PARK | TX |
| | SOLVAY & CIE SA | | |
| 9840 | SOLUOL CHEM. CO., INC. | WEST WARWICK | RI |
| 9880 | SOUTH HAMPTON CO. | SILSBEE | TX |
| 9890 | SOUTHEASTERN ADHESIVES CO. | LENOIR | NC |
| 10870 | SOUTHERN U. S. CHEM. CO., INC. | ROCK HILL | SC |
| | U. S. OIL CO. | | |
| 1040 | SOUTHLAND CORP. | GREAT MEADOWS | NJ |
| 9895 | SOUTHLAND CORP. | DALLAS | TX |
| 6260 | SOUTHWESTERN REFINING CO., INC. | CORPUS CRISTI | TX |
| | KERR-MCGEE CORP. | | |
| 7000 | SPAULDING FIBRE CO. | DE KALB | IL |
| | MONOGRAM INDUST., INC. | | |
| 7010 | SPAULDING FIBRE CO. | TONAWANDA | NY |
| | MONOGRAM INDUST., INC. | | |
| 9900 | SPECIALTY ORGANICS, INC. | IRWINDALE | CA |
| 9910 | SQUIBB CORP. | NEW BRUNSWICK | NJ |
| 9915 | SSC INDUSTRIES INC. | EAST POINT | GA |
| 9920 | STANDARD CHLORINE CHEMICAL CO., INC. | DELAWARE CITY | DE |
| 9930 | STANDARD CHLORINE CHEMICAL CO., INC. | KEARNY | NJ |
| 6890 | STANDARD T CHEM. CO., INC. | CHICAGO HEIGHTS | IL |
| | MOBIL CORP. | | |
| 6920 | STANDARD T CHEM. CO., INC. | STATEN ISLAND | NY |
| | MOBIL CORP. | | |
| 6960 | STANDARD T CHEM. CO., INC. | DALLAS | TX |
| | MOBIL CORP. | | |
| 3090 | STAR FIBERS, INC. | EDGEFIELD | SC |
| | DAYCO CORP. | | |
| 10110 | STAUFFER CHEMICAL CO. | SAN JOSE | CA |
| 10190 | STAUFFER CHEMICAL CO. | HENDERSON | NV |
| 10180 | STAUFFER CHEMICAL CO. | EDISON | NJ |
| 10120 | STAUFFER CHEMICAL CO. | ST. GABRIEL | LA |
| 10130 | STAUFFER CHEMICAL CO. | COLD CREEK | AL |
| 10170 | STAUFFER CHEMICAL CO. | LOUISVILLE | KY |

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CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 10140 | STAUFFER CHEMICAL CO. | LE MOYNE | AL |
| 10150 | STAUFFER CHEMICAL CO. | CARSON | CA |
| 10160 | STAUFFER CHEMICAL CO. | DELAWARE CITY | DE |
| 10220 | STEPAN CHEMICAL CO. | ANAHEIM | CA |
| 10240 | STEPAN CHEMICAL CO. | FIELDSBORO | NJ |
| 10250 | STEPAN CHEMICAL CO. | MAYWOOD | NJ |
| 10230 | STEPAN CHEMICAL CO. | MILLSDALE | IL |
| 10280 | STERLING DRUG INC. | CINCINNATI | OH |
| 10260 | STERLING DRUG INC. | TRENTON | NJ |
| 10320 | STIMSON LUMBER COMPANY | ANACORTES | WA |
| 10340 | ST. CROIX PETROCHEMICAL CORP.<br>AMERADA HESS CORP.<br>HERCOFINA | ST. CROIX | VI |
| 10350 | SULLIVAN CHEM. COATINGS | CHICAGO | IL |
| 10360 | SUN CHEM. CORP. | CHESTER | SC |
| 10370 | SUN PETROLEUM PRODUCTS CO.<br>SUN CO., INC. | CORPUS CHRISTI | TX |
| 10390 | SUN PETROLEUM PRODUCTS CO.<br>SUN CO., INC. | TOLEDO | OH |
| 10400 | SUN PETROLEUM PRODUCTS CO.<br>SUN CO., INC. | DUNCAN | OK |
| 10410 | SUN PETROLEUM PRODUCTS CO.<br>SUN CO., INC. | TULSA | OK |
| 10420 | SUN PETROLEUM PRODUCTS CO.<br>SUN CO., INC. | MARCUS HOOK | PA |
| 10845 | SUNBURST YARNS INC.<br>TULTEX CORP. | AFTON | VA |
| 10440 | SUNOLIN CHEM. CO.<br>OLIN CORP.<br>SUN COMPANY INC. | CLAYMONT | DE |
| 5232 | SURFACT-CO., INC.<br>MILLMASTERONYX-KEWANEE-GULF | BLUE ISLAND | IL |
| 10450 | SWS SILICONES CORP.<br>STAUFFER CHEMICAL CO.<br>WACKER CHEM. CORP. | ADRIAN | MI |
| 10470 | SYBRON CORP. | BIRMINGHAM | NJ |
| 10460 | SYBRON CORP. | ROMULUS | MI |
| 10480 | SYBRON CORP. | HALEDON | NJ |
| 10490 | SYBRON CORP. | LYNDHURST | NJ |
| 10500 | SYNCON RESINS INC. | CHICAGO | IL |
| 10510 | SYNCON RESINS INC. | SOUTH KEARNY | NJ |
| 10526 | SYNRES CHEM. CORP.<br>CHEMISCHE INDUSTRIE >SYNRES> BV | KENILWORTH | NJ |
| 10525 | SYNRES CHEM. CORP.<br>CHEMISCHE INDUSTRIE >SYNRES> BV | ANAHEIM | CA |
| 10527 | SYNRES CHEM. CORP.<br>CHEMISCHE INDUSTRIE >SYNRES> BV | ELKHART | IN |
| 10530 | SYNRES CHEM. CORP.<br>CHEMISCHE INDUSTRIE >SYNRES> BV | TONAWANDA | NY |
| 10550 | SYNTEX CORP. | NEWPORT | TN |
| 10540 | SYNTEX CORP. | VERONA | MO |
| 10570 | SYNTHANE-TAYLOR CORP. | BETZWOOD | PA |
| 10560 | SYNTHANE-TAYLOR CORP. | LAVERNE | CA |
| 10577 | SYNTHRON, INC. | MORGANTON | NC |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 10575 | SYNTHRON, INC. | ASHTON | RI |
| 9410 | S. C. JOHNSON & SON, INC. | RACINE | WI |
| 4085 | S. W. SHATTUCK CHEM. CO., INC.<br>ENGELHARD MINERALS & CHEMS. CORP. | DENVER | CO |
| 5995 | TALLEYRAND CHEMICALS INC.<br>INTERNATIONAL MATERIALS CORP. | NEW BEDFORD | MA |
| 2657 | TEEPAK, INC.<br>CONTINENTAL GROUP, INC., THE | DANVILLE | IL |
| 10590 | TEKNOR APEX CO. | HEBRONVILLE | MA |
| 10600 | TELEDYNE MCCORMICK SELPH | HOLLISTER | CA |
| 10670 | TENNECO INC. | PASADENA | TX |
| 10635 | TENNECO INC. | EAST RUTHERFORD | NJ |
| 10640 | TENNECO INC. | FORDS | NJ |
| 10610 | TENNECO INC. | CHALMETTE | LA |
| 10680 | TENNECO INC. | PISCATAWAY | NJ |
| 10650 | TENNECO INC. | GARFIELD | NJ |
| 10645 | TENNECO INC. | HAZLETON | PA |
| 10615 | TENNECO INC. | CARLSTADT | NJ |
| 10620 | TENNECO INC. | BURLINGTON | NJ |
| 10625 | TENNECO INC. | CHICAGO | IL |
| 10655 | TENNECO INC. | ROCKAWAY | NJ |
| 10630 | TENNECO INC. | FLEMINGTON | NJ |
| 10690 | TENNESSEE VALLEY AUTHORITY | MUSCLE SHOALS | AL |
| 10700 | TERRA CHEMS. INTERNATIONAL, INC. | PORT NEAL | IA |
| 6120 | TEXACO CHEMICAL CO.<br>TEXACO INC. | PORT NECHES | TX |
| 6110 | TEXACO CHEMICAL CO.<br>TEXACO INC. | CONROE | TX |
| 10720 | TEXACO CHEMICAL CO. | PORT ARTHUR | TX |
| 10710 | TEXACO CHEMICAL CO. | WESTVILLE | NJ |
| 3085 | TEXAPOL CORP.<br>DAYCO CORP. | BETHLEHEM | PA |
| 10730 | TEXAS CITY REFINING, INC.<br>AGWAY<br>SOUTHERN STATES COOPERATIVE, INC. | TEXAS CITY | TX |
| 10750 | TEXFI INDUST., INC. | ASHEBORO | NC |
| 10760 | TEXFI INDUST., INC. | NEW BERN | NC |
| 1070 | TEXTRON | VALLEY PARK | MO |
| 10788 | TEXTRON INC. | PENSACOLA | FL |
| 10785 | TEXTRON INC. | CAIRO | IL |
| 10786 | TEXTRON INC. | ST. LOUIS | MO |
| 10770 | TEXTRON INC. | SAN CARLOS | CA |
| 10775 | TEXTRON INC. | BALTIMORE | MD |
| 10780 | TEXTRON INC. | BELLEVUE | OH |
| 10782 | TEXTRON INC. | NEWARK | NJ |
| 10035 | THE STANDARD OIL COMPANY (OHIO)<br>B P LTD. | LIMA | OH |
| 10792 | THIOKOL CORP | MOSS POINT | MS |
| 10800 | THIOKOL CORP. | PHILADELPHIA | PA |
| 7590 | THOMPSON-HAYWARD CHEM. CO.<br>NORTH AMERICAN PHILIPS CORP. | KANSAS CITY | KS |
| 10805 | TILLETT CHEMICAL INC. | PINEVILLE | NC |
| 10810 | TOMS RIVER CHEMICAL CORP.<br>CIBA GEIGY | TOMS RIVER | NJ |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| | SANDOZ AG | READING | MA |
| 10820 | TRANCOA CHEM. CORP. | DONALDSONVILLE | LA |
| 10830 | TRIAD CHEMICAL | | |
| | FIRST MISSISSIPPI CORP. | | |
| | MISSISSIPPI CHEM. CORP. | | |
| 10880 | UNGERER & CO., INC. | TOTOWA | NJ |
| 10890 | UNION CAMP CORP. | JACKSONVILLE | FL |
| 10910 | UNION CAMP CORP. | DOVER | OH |
| 11000 | UNION CARBIDE CARIBE, INC. | PENUELAS | PR |
| | UNION CARBIDE CORP. | | |
| 10920 | UNION CARBIDE CORP. | ELK GROVE | CA |
| 10930 | UNION CARBIDE CORP. | SISTERSVILLE | WV |
| 11030 | UNION CARBIDE CORP. | TEXAS CITY | TX |
| 11040 | UNION CARBIDE CORP. | INSTITUTE AND SOUTH CHARLESTON | WV |
| 11010 | UNION CARBIDE CORP. | BROWNSVILLE | TX |
| 10940 | UNION CARBIDE CORP. | TORRANCE | CA |
| 10960 | UNION CARBIDE CORP. | BOUND BROOK | NJ |
| 11020 | UNION CARBIDE CORP. | SEADRIFT | TX |
| 10970 | UNION CARBIDE CORP. | NIAGARA FALLS | NY |
| 10950 | UNION CARBIDE CORP. | TAFT | LA |
| 10990 | UNION CARBIDE CORP. | MARIETTA | OH |
| 11080 | UNION OIL CO. OF CALIFORNIA | LEMONT | IL |
| 11055 | UNION OIL CO. OF CALIFORNIA | KEARNY | NJ |
| 11090 | UNION OIL CO. OF CALIFORNIA | BEAUMONT | TX |
| 11060 | UNION OIL CO. OF CALIFORNIA | KENAI | AK |
| | MITSUBISHI-UREA PLANT-J.V. | | |
| 11065 | UNION OIL CO. OF CALIFORNIA | LA MIRADA | CA |
| 11050 | UNION OIL CO. OF CALIFORNIA | CHARLOTTE | NC |
| 11070 | UNION OIL CO. OF CALIFORNIA | BREA | CA |
| 11155 | UNIROYAL, INC. | GASTONIA | NC |
| 11115 | UNIROYAL, INC. | SHELBYVILLE | TN |
| 11140 | UNIROYAL, INC. | NAUGATUCK | CT |
| 11150 | UNIROYAL, INC. | GEISMAR | LA |
| 11810 | UNITED FOAM CORP. | BOISE | ID |
| 11910 | UNITED FOAM CORP. | HAYWARD | CA |
| 11930 | UNITED FOAM CORP. | KENT | WA |
| 11830 | UNITED FOAM CORP. | CLEVELAND | OH |
| 11820 | UNITED FOAM CORP. | BREMEN | IN |
| 11980 | UNITED FOAM CORP. | SALT LAKE CITY | UT |
| 11900 | UNITED FOAM CORP. | FRESNO | CA |
| 11920 | UNITED FOAM CORP. | HONOLULU | HI |
| 11940 | UNITED FOAM CORP. | LOUISVILLE | KY |
| 11800 | UNITED FOAM CORP. | ALLENTOWN | PA |
| 11840 | UNITED FOAM CORP. | COMPTON | CA |
| 11990 | UNITED FOAM CORP. | SHAWNEE | OK |
| 11970 | UNITED FOAM CORP. | SACRAMENTO | CA |
| 11860 | UNITED FOAM CORP. | DALLAS | TX |
| 11870 | UNITED FOAM CORP. | DENVER | CO |
| 11950 | UNITED FOAM CORP. | PHOENIX | AZ |
| 11890 | UNITED FOAM CORP. | FRANKLIN | NJ |
| 11960 | UNITED FOAM CORP. | PORTLAND | OR |
| 11172 | UNITED MERCHANTS & MANUFACTURERS, INC. | MIAMI | FL |
| 11173 | UNITED MERCHANTS & MANUFACTURERS, INC. | LOS ANGELES | CA |
| 11170 | UNITED MERCHANTS & MANUFACTURERS, INC. | LANGLEY | SC |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| 11171 | UNITED MERCHANTS & MANUFACTURERS, INC. | ELKHART | IN |
| 11190 | UNITED STATES GYPSUM | TRENTON | NJ |
| 11180 | UNITED STATES GYPSUM | ROSEMONT | IL |
| 11275 | UNITED STATES STEEL CORP | HOUSTON | TX |
| 11260 | UNITED STATES STEEL CORP. | FAIRLESS HILLS | PA |
| 11765 | UNITED STATES STEEL CORP. | LINDEN | NJ |
| 11215 | UNITED STATES STEEL CORP. | DULUTH | MN |
| 11210 | UNITED STATES STEEL CORP. | CHEROKEE | AL |
| 11250 | UNITED STATES STEEL CORP. | CLAIRTON | PA |
| 11270 | UNITED STATES STEEL CORP. | NEVILLE ISLAND | PA |
| 11767 | UNITED STATES STEEL CORP. | SWANTON | OH |
| 11280 | UNITED STATES STEEL CORP. | GENEVA | UT |
| 11761 | UNITED STATES STEEL CORP. | BARTOW | FL |
| 11235 | UNITED STATES STEEL CORP. | LORAIN | OH |
| 11120 | UNITED STATES STEEL CORP. | SCOTTS BLUFF | LA |
| 11220 | UNITED STATES STEEL CORP. | FAIRFIELD | AL |
| 11755 | UNITED STATES STEEL CORP. | COLTON | CA |
| 11763 | UNITED STATES STEEL CORP. | JACKSONVILLE | AR |
| 11240 | UNITED STATES STEEL CORP. | HAVERHILL | OH |
| 11230 | UNITED STATES STEEL CORP. | GARY | IN |
| 11300 | UNITED-ERIE, INC. | ERIE | PA |
| 4240 | UNIVERSAL POLYMER PRODUCTS CO.<br>FALK FIBERS & FABRICS INC. | FUQUAY-VARINA | NC |
| 11370 | UOP INC.<br>THE SIGNAL COMPANIES, INC. | SHREVEPORT | LA |
| 11380 | UOP INC.<br>THE SIGNAL COMPANIES, INC. | EAST RUTHERFORD | NJ |
| 11390 | UPJOHN CO., THE | LA PORTE | TX |
| 11399 | UPJOHN CO., THE | TORRANCE | CA |
| 11398 | UPJOHN CO., THE | FAIRBANKS | AK |
| 11395 | UPJOHN CO., THE | NORTH HAVEN | CT |
| 4060 | USM CORP.<br>EMHART CORP. | MIDDLETON | MA |
| 4070 | USM CORP.<br>EMHART CORP. | GREENVILLE | SC |
| 7700 | USS NOVAMONT INC.<br>MONTEDISON SPA | KENOVA | WV |
| 7705 | USS NOVAMONT INC. | LA PORTE | TX |
| 10860 | U. S. OIL CO. | EAST PROVIDENCE | RI |
| 11400 | VALENTINE SUGARS, INC. | LOCKPORT | LA |
| 11435 | VALSPAR CORP. | CHICAGO | IL |
| 11440 | VALSPAR CORP. | ROCKFORD | IL |
| 11450 | VAN DE MARK CHEM. CO., INC. | LOCKPORT | NY |
| 7690 | VELISCOL CHEM. CORP.<br>NORTHWEST INDUST., INC. | MEMPHIS | TN |
| 7680 | VELSICOL CHEM. CORP.<br>NORTHWEST INDUST., INC. | MARSHALL | IL |
| 7630 | VELSICOL CHEM. CORP.<br>NORTHWEST INDUST. INC. | EL DORADO | AR |
| 7660 | VELSICOL CHEM. CORP.<br>NORTHWEST INDUST., INC. | BEAUMONT | TX |
| 7650 | VELSICOL CHEM. CORP.<br>NORTHWEST INDUST., INC. | CHATTANOOGA | TN |
| 11453 | VENTRON CORP. | DANVERS | MA |

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

| OCPDB NUMBER | COMPANY NAME | CITY | STATE |
|---|---|---|---|
| | THIOKOL CORP. | | |
| 11460 | VERTAC, INC. | JACKSONVILLE | AR |
| 11470 | VERTAC, INC. | VICKSBURG | MS |
| 11475 | VIRGINIA CHEMICALS INC. | BUCKS | AL |
| 11480 | VIRGINIA CHEMICALS INC. | PORTSMOUTH | VA |
| 10031 | VISTRON CORP. | COVINGTON | KY |
| | STANDARD OIL CO. (OHIO), THE | | |
| | BP LTD. | | |
| 10033 | VISTRON CORP. | HAWTHORNE | CA |
| | STANDARD OIL CO. (OHIO), THE | | |
| | BP LTD. | | |
| 10020 | VISTRON CORP. | LIMA | OH |
| | STANDARD OIL CO. (OHIO), THE | | |
| | BP LTD. | | |
| 11500 | VULCAN MATERIALS CO. | GEISMAR | LA |
| 11490 | VULCAN MATERIALS CO. | WICHITA | KS |
| 11485 | VULCANIZED RUBBER & PLASTICS CO. | MORRISVILLE | PA |
| 11505 | WALL INDUST., INC. | BEVERLY | NJ |
| 11540 | WARE CHEMICALS CORP. | STRATFORD | CT |
| 11555 | WARNER-LAMBERT CO. | HOLLAND | MI |
| | PARKE, DAVIS & CO. | | |
| 11560 | WELLMAN INDUSTRIES, INC. | JOHNSONVILLE | SC |
| | WELLMAN, INC. | | |
| 11570 | WEST COAST ADHESIVES CO. | PORTLAND | OR |
| 11580 | WESTINGHOUSE ELECTRIC CORP. | WEST MIFFLIN | PA |
| 11600 | WEYERHAEUSER CO. | MARSHFIELD | WI |
| 11590 | WEYERHAEUSER CO. | LONGVIEW | WA |
| 11610 | WHEELING-PITTSBURGH STEEL CORP. | MONESSEN | PA |
| 11605 | WHEELING-PITTSBURGH STEEL CORP. | EAST STEUBENVILLE | WV |
| 11620 | WHITE CHEMICAL CORP. | BAYONNE | NJ |
| 11630 | WHITTAKER CORP. | WOOSTER | OH |
| 11635 | WHITTAKER CORP. | MINNEAPOLIS | MN |
| 11637 | WHITTAKER CORP. | LENOIR | NC |
| 11680 | WITCO CHEM. CORP. | PATERSON | NJ |
| 11710 | WITCO CHEM. CORP. | RICHMOND | CA |
| 11720 | WITCO CHEM. CORP. | PERTH AMBOY | NJ |
| 11685 | WITCO CHEM. CORP. | HOUSTON | TX |
| 11675 | WITCO CHEM. CORP. | NEW CASTLE | DE |
| 11670 | WITCO CHEM. CORP. | CLEARING | IL |
| 11700 | WITCO CHEM. CORP. | LYNWOOD | CA |
| 11690 | WITCO CHEM. CORP. | CARSON | CA |
| 11740 | WOBURN CHEM. CO. | PATERSON | NJ |
| 11780 | WRIGHT CHEMICAL CORP. | ACME | NC |
| 2500 | WYCON CHEM. CO. | CHEYENNE | WY |
| | COASTAL STATES GAS CORP. | | |
| 11760 | W. R. GRACE & CO. | OWENSBORO | KY |
| 11530 | W. R. GRACE & CO. | MEMPHIS | TN |
| 11520 | W. R. GRACE & CO. | FORDS | NJ |
| 11510 | W. R. GRACE & CO. | NASHUA | NH |
| 11770 | W. R. GRACE & CO. | SOUTH ACTON | MA |
| 8377 | XCEL CORP. | NEWARK | NJ |
| | POLYMER MATERIALS, INC. | | |
| 11790 | YENKIN-MAJESTIC PAINT CORP. | COLUMBUS | OH |

# APPENDIX C

## OCPDB CHEMICALS

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@DATA,L  REPORT.
DATA 9R1-S3A SL74T9 06/03/81 09:27:27(1)
     1.       *  ENTRY ID    PRODUCT
     2.       ***
     3.       *          5   ABS
     4.       *         12   ACENAPHTHENE
     5.       *         15   ACENAPHTHYLENE
     6.       *         20   ACETAL
     7.       *         30   ACETALDEHYDE
     8.       *         40   ACETALDOL
     9.       *         50   ACETAMIDE
    10.       *         65   ACETANILIDE
    11.       *         70   ACETIC ACID
    12.       *         75   ACETIC ACID SALTS
    13.       *         80   ACETIC ANHYDRIDE
    14.       *         90   ACETONE
    15.       *        100   ACETONE CYANOHYDRIN
    16.       *        110   ACETONITRILE
    17.       *        120   ACETOPHENONE
    18.       *        125   ACETYL CHLORIDE
    19.       *        130   ACETYLENE
    20.       *        140   ACROLEIN
    21.       *        150   ACRYLAMIDE
    22.       *        155   ACRYLIC RESINS
    23.       *        156   ACRYLIC FIBER
    24.       *        162   ACRYLIC ACID
    25.       *        164   ACRYLATE ESTERS
    26.       *        170   ACRYLONITRILE
    27.       *        180   ADIPIC ACID
    28.       *        185   ADIPONITRILE
    29.       *        186   MIXED ALCOHOL PHTHALATES
    30.       *        187   ALDRIN
    31.       *        189   ALKYDS AND UNSATURATED PO
    32.                      LYESTER RESINS
    33.       *        190   ALKYLNAPHTHALENES(METHYL)
    34.       *        200   ALLYL ALCOHOL
    35.       *        210   ALLYL CHLORIDE
    36.       *        220   AMINOBENZOIC ACID (M,P)
    37.       *        230   AMINOETHYLETHANOLAMINE
    38.       *        235   P-AMINOPHENOL
    39.       *        240   AMYL ACETATES
    40.       *        250   AMYL ALCOHOLS (8 ISOMERS)
    41.       *        260   AMYLAMINE
    42.       *        270   AMYL CHLORIDE
    43.       *        280   AMYL MERCAPTANS
    44.       *        290   AMYL PHENOL
    45.       *        300   ANILINE
    46.       *        310   ANILINE HYDROCHLORIDE
    47.       *        320   ANISIDINE
    48.       *        330   ANISOLE
    49.       *        335   ANTHRACENE
    50.       *        340   ANTHRANILIC ACID
    51.       *        350   ANTHRAQUINONE
    52.       *        358   ASPIRIN
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| | | | |
|---|---|---|---|
| 53. | * | 360 | BENZALDEHYDE |
| 54. | * | 370 | BENZAMIDE |
| 55. | * | 375 | BENZO(A)ANTHRACENE |
| 56. | * | 380 | BENZENE |
| 57. | * | 390 | BENZENEDISULFONIC ACID (M |
| 58. | | | ) |
| 59. | * | 400 | BENZENESULFONIC ACID |
| 60. | * | 405 | BENZIDINE |
| 61. | * | 410 | BENZIL |
| 62. | * | 420 | BENZILIC ACID |
| 63. | * | 423 | 3,4-BENZOFLUORANTHENE |
| 64. | * | 426 | 11,12-BENZOFLUORANTHENE |
| 65. | * | 430 | BENZOIC ACID |
| 66. | * | 440 | BENZOIN |
| 67. | * | 445 | BENZO(A)PYRENE |
| 68. | * | 450 | BENZONITRILE |
| 69. | * | 455 | 1,12-BENZOPERYLENE |
| 70. | * | 460 | BENZOPHENONE |
| 71. | * | 480 | BENZOTRICHLORIDE |
| 72. | * | 490 | BENZOYL CHLORIDE |
| 73. | * | 495 | BENZOYL PEROXIDE |
| 74. | * | 500 | BENZYL ALCOHOL |
| 75. | * | 510 | BENZYLAMINE |
| 76. | * | 520 | BENZYL BENZOATE |
| 77. | * | 530 | BENZYL CHLORIDE |
| 78. | * | 540 | BENZYL DICHLORIDE |
| 79. | * | 542 | BHC-ALPHA |
| 80. | * | 544 | BHC-BETA |
| 81. | * | 546 | BHC-GAMMA |
| 82. | * | 548 | BHC-DELTA |
| 83. | * | 550 | BIPHENYL |
| 84. | * | 552 | BIS(2-CHLOROETHOXY)METHAN |
| 85. | | | E |
| 86. | * | 554 | BIS(2-CHLOROISOPROPYL)ETH |
| 87. | | | ER |
| 88. | * | 556 | BIS(CHLOROMETHYL)ETHER |
| 89. | * | 558 | BIS(2-ETHYLHEXYL) PHTHALA |
| 90. | | | TE |
| 91. | * | 560 | BISPHENOL A |
| 92. | * | 570 | BROMOBENZENE |
| 93. | * | 575 | BROMOFORM |
| 94. | * | 580 | BROMONAPHTHALENE |
| 95. | * | 582 | 4-BROMOPHENYL PHENYL ETHE |
| 96. | | | R |
| 97. | * | 590 | BUTADIENE |
| 98. | * | 592 | N-BUTENE |
| 99. | * | 600 | N-BUTYL ACETATE |
| 100. | * | 630 | N-BUTYLACRYLATE |
| 101. | * | 640 | N-BUTYL ALCOHOL |
| 102. | * | 650 | SEC-BUTYL ALCOHOL |
| 103. | * | 660 | TERT-BUTYL ALCOHOL |
| 104. | * | 670 | N-BUTYLAMINE |
| 105. | * | 680 | SEC-BUTYLAMINE |
| 106. | * | 690 | TERT-BUTYLAMINE |

| | | | |
|---|---|---|---|
| 107. | * | 700 | P-TERT-BUTYLBENZOIC ACID |
| 108. | * | 705 | BUTYL BENZYL PHTHALATE |
| 109. | * | 710 | 1,3-BUTYLENE GLYCOL |
| 110. | * | 720 | BUTYLENES |
| 111. | * | 725 | BUTYL MERCAPTANS |
| 112. | * | 727 | BUTYL PHTHALYL BUTYL GLYC |
| 113. | | | OLATE |
| 114. | * | 729 | BUTYLOCTYL PHTHALATE |
| 115. | * | 730 | TERT-BUTYLPHENOL |
| 116. | * | 750 | N-BUTYRALDEHYDE |
| 117. | * | 760 | N-BUTYRIC ACID |
| 118. | * | 770 | N-BUTYRIC ANHYDRIDE |
| 119. | * | 780 | N-BUTYRONITRILE |
| 120. | * | 784 | CALCIUM STEARATE |
| 121. | * | 785 | CAPROLACTAM |
| 122. | * | 790 | CARBON DISULFIDE |
| 123. | * | 800 | CARBON TETRABROMIDE |
| 124. | * | 810 | CARBON TETRACHLORIDE |
| 125. | * | 812 | CARBON TETRAFLUORIDE |
| 126. | * | 815 | CASTOR OIL |
| 127. | * | 817 | CELLOPHANE |
| 128. | * | 818 | CELLULOSE(ALPHA GRADES & |
| 129. | | | DISSOLVING) |
| 130. | * | 819 | CELLULOSE ACETATE BUTYRAT |
| 131. | | | E |
| 132. | * | 820 | CELLULOSE ACETATE |
| 133. | * | 821 | CELLULOSE ACETATE PROPION |
| 134. | | | ATE |
| 135. | * | 822 | CELLULOSE DERIVATIVES |
| 136. | * | 824 | CELLULOSE NITRATE |
| 137. | * | 826 | CELLULOSE SPONGE |
| 138. | * | 830 | CHLOROACETALDEHYDE |
| 139. | * | 840 | CHLOROACETIC ACID |
| 140. | * | 845 | CHLOROACETOPHENONE |
| 141. | * | 850 | M-CHLOROANILINE |
| 142. | * | 860 | O-CHLOROANILINE |
| 143. | * | 870 | P-CHLOROANILINE |
| 144. | * | 880 | CHLOROBENZALDEHYDE |
| 145. | * | 890 | CHLOROBENZENE |
| 146. | * | 900 | CHLOROBENZOIC ACID AND ES |
| 147. | | | TERS |
| 148. | * | 905 | CHLOROBENZOTRICHLORIDE (O |
| 149. | | | ,P) |
| 150. | * | 910 | CHLOROBENZOYL CHLORIDE |
| 151. | * | 915 | CHLORDANE |
| 152. | * | 920 | CHLORODIFLUOROETHANE |
| 153. | * | 921 | CHLORODIFLUOROMETHANE |
| 154. | * | 923 | CHLORODIBROMOMETHANE |
| 155. | * | 925 | 2-CHLOROETHYL VINYL ETHER |
| 156. | | | (MIXED) |
| 157. | * | 930 | CHLOROFORM |
| 158. | * | 935 | CHLOROMETHANES |
| 159. | * | 937 | 4-CHLORO-3-METHYL PHENOL |
| 160. | * | 940 | CHLORONAPHTHALENE |

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| 161. | * | 945 | 2-CHLORONAPHTHALENE |
| 162. | * | 950 | O-CHLORONITROBENZENE |
| 163. | * | 951 | P-CHLORONITROBENZENE |
| 164. | * | 960 | CHLOROPHENOLS |
| 165. | * | 961 | 2-CHLOROPHENOL |
| 166. | * | 963 | 4-CHLOROPHENYL PHENYLETHE |
| 167. | | | R |
| 168. | * | 964 | CHLOROPRENE |
| 169. | * | 965 | CHLOROSULFONIC ACID |
| 170. | * | 970 | M-CHLOROTOLUENE |
| 171. | * | 980 | O-CHLOROTOLUENE |
| 172. | * | 990 | P-CHLOROTOLUENE |
| 173. | * | 992 | CHLOROTRIFLUOROMETHANE |
| 174. | * | 993 | CHOLINE CHLORIDE |
| 175. | * | 995 | CHRYSENE |
| 176. | * | 996 | CITRONELLOL |
| 177. | * | 997 | COAL TAR |
| 178. | * | 999 | COUMARONE-INDENE RESINS |
| 179. | * | 1000 | M-CRESOL |
| 180. | * | 1010 | O-CRESOL |
| 181. | * | 1020 | P-CRESOL |
| 182. | * | 1021 | CRESOLS MIXED |
| 183. | * | 1030 | CRESYLIC ACID |
| 184. | * | 1040 | CROTONALDEHYDE |
| 185. | * | 1050 | CROTONIC ACID |
| 186. | * | 1060 | CUMENE |
| 187. | * | 1070 | CUMENE HYDROPEROXIDE |
| 188. | * | 1080 | CYANOACETIC ACID |
| 189. | * | 1090 | CYANOGEN CHLORIDE |
| 190. | * | 1100 | CYANURIC ACID |
| 191. | * | 1110 | CYANURIC CHLORIDE |
| 192. | * | 1120 | CYCLOHEXANE |
| 193. | * | 1130 | CYCLOHEXANOL |
| 194. | * | 1140 | CYCLOHEXANONE |
| 195. | * | 1150 | CYCLOHEXENE |
| 196. | * | 1160 | CYCLOHEXYLAMINE |
| 197. | * | 1170 | 1,5-CYCLOOCTADIENE |
| 198. | * | 1172 | 4,4'-DDD |
| 199. | * | 1174 | 4,4'-DDE |
| 200. | * | 1176 | 4,4'-DDT |
| 201. | * | 1180 | DECANOL |
| 202. | * | 1190 | DIACETONE ALCOHOL |
| 203. | * | 1195 | DIALLYL PHTHALATE RESINS |
| 204. | * | 1196 | 1,2,5,6-DIBENZANTHRACENE |
| 205. | * | 1197 | DI-N-BUTYL PHTHALATE |
| 206. | * | 1200 | DIAMINOBENZOIC ACID |
| 207. | * | 1210 | DICHLOROANILINE |
| 208. | * | 1212 | 2,2'-DICHLOROBENZIDINE |
| 209. | * | 1213 | 3,3'-DICHLOROBENZIDINE |
| 210. | * | 1214 | 2,3'-DICHLOROBENZIDINE |
| 211. | * | 1215 | M-DICHLOROBENZENE |
| 212. | * | 1216 | O-DICHLOROBENZENE |
| 213. | * | 1220 | P-DICHLOROBENZENE |
| 214. | * | 1221 | DICHLORODIFLUOROMETHANE |

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| 215. | * | 1225 | 1,1-DICHLOROETHANE |
| 216. | * | 1235 | 1,2-DICHLOROETHYLENE (CIS) |
| 217. | | | |
| 218. | * | 1236 | 1,2-TRANS-DICHLOROETHYLENE |
| 219. | | | |
| 220. | * | 1240 | DICHLOROETHYL ETHER |
| 221. | * | 1243 | DICHLOROBROMOMETHANE |
| 222. | * | 1244 | 1,2-DICHLOROETHANE |
| 223. | * | 1246 | DICHLOROMETHYL ETHER |
| 224. | * | 1250 | DICHLOROHYDRIN |
| 225. | * | 1265 | 2,4-DICHLOROPHENOL |
| 226. | * | 1266 | 1,1-DICHLOROPROPANE |
| 227. | * | 1268 | 2,2-DICHLOROPROPANE |
| 228. | * | 1270 | DICHLOROPROPENE |
| 229. | * | 1271 | 1,3-DICHLOROPROPENE |
| 230. | * | 1272 | 1,1-DICHLOROPROPENE |
| 231. | * | 1273 | 1,2-DICHLOROPROPENE (CIS) |
| 232. | * | 1274 | 1,2-DICHLOROPROPENE (TRANS) |
| 233. | | | |
| 234. | * | 1275 | DICHLOROTETRAFLUOROETHANE |
| 235. | * | 1276 | 1,3-DICHLOROPROPENE (CIS) |
| 236. | * | 1277 | 1,3-DICHLOROPROPENE (TRANS) |
| 237. | | | |
| 238. | * | 1280 | DICYCLOHEXYLAMINE |
| 239. | * | 1281 | DIDECYL PHTHALATE |
| 240. | * | 1283 | DIELDRIN |
| 241. | * | 1290 | DIETHYLAMINE |
| 242. | * | 1300 | DIETHYLENE GLYCOL |
| 243. | * | 1304 | DIETHYLENE GLYCOL DIETHYL ETHER |
| 244. | | | |
| 245. | * | 1305 | DIETHYLENE GLYCOL DIMETHYL ETHER |
| 246. | | | |
| 247. | * | 1310 | DIETHYLENE GLYCOL MONOBUTYL ETHER |
| 248. | | | |
| 249. | * | 1320 | DIETHYLENE GLYCOL MONOBUTYL ETHER ACETATE |
| 250. | | | |
| 251. | * | 1330 | DIETHYLENE GLYCOL MONOETHYL ETHER |
| 252. | | | |
| 253. | * | 1340 | DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE |
| 254. | | | |
| 255. | * | 1360 | DIETHYLENE GLYCOL MONOMETHYL ETHER |
| 256. | | | |
| 257. | * | 1380 | DIETHYL PHTHALATE |
| 258. | * | 1385 | DI-N-HEXYL PHTHALATE |
| 259. | * | 1390 | DI-N-OCTYL PHTHALATE |
| 260. | * | 1420 | DIETHYL SULFATE |
| 261. | * | 1430 | DIFLUOROETHANE |
| 262. | * | 1440 | DIISOBUTYLENE |
| 263. | * | 1441 | DI-ISOBUTLYL PHTHALATE |
| 264. | * | 1442 | DIISODECYL PHTHALATE |
| 265. | * | 1444 | DIISOOCTYL PHTHALATE |
| 266. | * | 1446 | DIISOPROPYL AMINE |
| 267. | * | 1450 | DIKETENE |
| 268. | * | 1460 | DIMETHYLAMINE |

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| 269. | * | 1465 | 2-DIMETHYL AMINOETHANOL |
| 270. | * | 1470 | N,N-DIMETHYLANILINE |
| 271. | * | 1480 | DIMETHYL ETHER |
| 272. | * | 1490 | N,N-DIMETHYLFORMAMIDE |
| 273. | * | 1495 | 1,1-DIMETHYL HYDRAZINE |
| 274. | * | 1496 | 2,4-DIMETHYL PHENOL |
| 275. | * | 1497 | DIMETHYL PHTHALATE |
| 276. | * | 1500 | DIMETHYL SULFATE |
| 277. | * | 1510 | DIMETHYL SULFIDE |
| 278. | * | 1520 | DIMETHYL SULFOXIDE |
| 279. | * | 1530 | DIMETHYL TEREPHTHALATE |
| 280. | * | 1535 | DINITROBENZENES |
| 281. | * | 1540 | 3,5-DINITROBENZOIC ACID |
| 282. | * | 1543 | 4,6-DINITRO-O-CRESOL |
| 283. | * | 1545 | 2,4-DINITROPHENOL |
| 284. | * | 1550 | DINITROTOLUENE |
| 285. | * | 1551 | 2,4-DINITROTOLUENE |
| 286. | * | 1552 | 2,6-DINITROTOLUENE |
| 287. | * | 1553 | 2,3-DINITROTOLUENE |
| 288. | * | 1554 | 2,5-DINITROTOLUENE |
| 289. | * | 1555 | 3,4-DINITROTOLUENE |
| 290. | * | 1556 | 3,5-DINITROTOLUENE |
| 291. | * | 1557 | 1,2-DIPHENYLHYDRAZINE |
| 292. | * | 1558 | N,N-DIPHENYLHYDRAZINE |
| 293. | * | 1560 | DIOXANE |
| 294. | * | 1570 | DIOXOLANE |
| 295. | * | 1580 | DIPHENYLAMINE |
| 296. | * | 1587 | DIPHENYL METHANE |
| 297. | * | 1589 | DIPHENYL PHTHALATE |
| 298. | * | 1590 | DIPHENYL OXIDE |
| 299. | * | 1600 | DIPHENYLTHIOUREA |
| 300. | * | 1610 | DIPROPYLENE GLYCOL |
| 301. | * | 1615 | DI-TRIDECYL PHTHALATE |
| 302. | * | 1620 | DODECENE |
| 303. | * | 1630 | DODECYLANILINE |
| 304. | * | 1635 | DODECYL MERCAPTAN |
| 305. | * | 1640 | DODECYLPHENOL |
| 306. | * | 1642 | ENDOSULFAN-ALPHA |
| 307. | * | 1643 | ENDOSULFAN-BETA |
| 308. | * | 1644 | ENDOSULFAN SULFATE |
| 309. | * | 1646 | ENDRIN |
| 310. | * | 1647 | ENDRIN ALDEHYDE |
| 311. | * | 1648 | ENDRIN KETONE |
| 312. | * | 1650 | EPICHLOROHYDRIN |
| 313. | * | 1653 | EPOXIDIZED ESTERS |
| 314. | * | 1656 | EPOXY RESINS |
| 315. | * | 1660 | ETHANOL-SYNTHETIC |
| 316. | * | 1661 | ETHANOLAMINES |
| 317. | * | 1670 | ETHYL ACETATE |
| 318. | * | 1680 | ETHYL ACETOACETATE |
| 319. | * | 1690 | ETHYL ACRYLATE |
| 320. | * | 1700 | ETHYLAMINE |
| 321. | * | 1710 | ETHYLBENZENE |
| 322. | * | 1720 | ETHYL BROMIDE |

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| 323. | * | 1730 | ETHYL CELLULOSE |
| 324. | * | 1740 | ETHYL CHLORIDE |
| 325. | * | 1750 | ETHYL CHLOROACETATE |
| 326. | * | 1760 | ETHYLCYANOACETATE |
| 327. | * | 1770 | ETHYLENE |
| 328. | * | 1780 | ETHYLENE CARBONATE |
| 329. | * | 1790 | ETHYLENE CHLOROHYDRIN |
| 330. | * | 1800 | ETHYLENE DIAMINE |
| 331. | * | 1810 | ETHYLENE DIBROMIDE |
| 332. | * | 1830 | ETHYLENE GLYCOL |
| 333. | * | 1840 | ETHYLENE GLYCOL DIACETATE |
| 334. | * | 1870 | ETHYLENE GLYCOL DIMETHYL ETHER |
| 335. | | | |
| 336. | * | 1890 | ETHYLENE GLYCOL MONOBUTYL ETHER |
| 337. | | | |
| 338. | * | 1900 | ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE |
| 339. | | | |
| 340. | * | 1910 | ETHYLENE GLYCOL MONOETHYL ETHER |
| 341. | | | |
| 342. | * | 1920 | ETHYLENE GLYCOL MONOETHYL ETHER ACETATE |
| 343. | | | |
| 344. | * | 1930 | ETHYLENE GLYCOL MONOMETHY L ETHER |
| 345. | | | |
| 346. | * | 1940 | ETHYLENE GLYCOL MONOMETHY L ETHER ACETATE |
| 347. | | | |
| 348. | * | 1960 | ETHYLENE GLYCOL MONOPHENY L ETHER |
| 349. | | | |
| 350. | * | 1970 | ETHYLENE GLYCOL MONOPROPY L ETHER |
| 351. | | | |
| 352. | * | 1980 | ETHYLENE OXIDE |
| 353. | * | 1985 | ETHYLENE-VINYL ACETATE CO POLYMERS |
| 354. | | | |
| 355. | * | 1990 | ETHYL ETHER |
| 356. | * | 1995 | ETHYLHEXANOIC ACID |
| 357. | * | 2000 | 2-ETHYL HEXANOL |
| 358. | * | 2007 | ETHYL MERCAPTAN |
| 359. | * | 2010 | ETHYL ORTHOFORMATE |
| 360. | * | 2020 | ETHYL OXALATE |
| 361. | * | 2030 | ETHYL SODIUM OXALACETATE |
| 362. | * | 2033 | FLUORANTHENE |
| 363. | * | 2035 | FLUOROCARBON POLYMERS |
| 364. | * | 2037 | FLUORENE |
| 365. | * | 2040 | FORMALDEHYDE |
| 366. | * | 2050 | FORMAMIDE |
| 367. | * | 2060 | FORMIC ACID |
| 368. | * | 2070 | FUMARIC ACID |
| 369. | * | 2073 | FURFURAL |
| 370. | * | 2075 | GERANIOL |
| 371. | * | 2080 | GLUTAMIC ACID, MONOSODIUM SALT |
| 372. | | | |
| 373. | * | 2090 | GLYCEROL (NATURAL + SYNTH ETIC) |
| 374. | | | |
| 375. | * | 2091 | GLYCEROL DICHLOROHYDRIN |
| 376. | * | 2100 | GLYCEROL TRI(POLYOXYPROPY |

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| 377. | | | LENE)ETHER |
| 378. | * | 2105 | GLYCIDOL |
| 379. | * | 2110 | GLYCINE |
| 380. | * | 2120 | GLYOXAL |
| 381. | * | 2130 | HEPTACHLOR |
| 382. | * | 2135 | HEPTACHLOR EPOXIDE |
| 383. | * | 2137 | N-HEPTYL-NONYL-UNDECYL PH |
| 384. | | | THALATE |
| 385. | * | 2140 | HEPTENE |
| 386. | * | 2145 | HEXACHLOROBENZENE |
| 387. | * | 2147 | HEXACHLOROBUTADIENE |
| 388. | * | 2148 | HEXACHLOROCYCLOHEXANE (MI |
| 389. | | | XED ISOMERS) |
| 390. | * | 2149 | HEXACHLOROCYCLOPENTADIENE |
| 391. | * | 2150 | HEXACHLOROETHANE |
| 392. | * | 2160 | HEXADECYL ALCOHOL |
| 393. | * | 2165 | HEXAMETHYLENEDIAMINE |
| 394. | * | 2170 | HEXAMETHYLENE GLYCOL |
| 395. | * | 2180 | HEXAMETHYLENE TETRAMINE |
| 396. | * | 2181 | N-HEXYL-2-ETHYLHEXYL-ISOD |
| 397. | | | ECYL PHTHALATE |
| 398. | * | 2182 | N-HEXYL-2-ETHYLHEXYL PHTH |
| 399. | | | ALATE |
| 400. | * | 2183 | N-HEXYL-OCTYL-DECYL PHTHA |
| 401. | | | LATE |
| 402. | * | 2185 | HYDRAZINE SOLUTIONS |
| 403. | * | 2190 | HYDROGEN CYANIDE |
| 404. | * | 2200 | HYDROQUINONE |
| 405. | * | 2210 | P-HYDROXYBENZOIC ACID |
| 406. | * | 2215 | HYDROXYETHYL TEREPHTHALAT |
| 407. | | | E |
| 408. | * | 2217 | HYDROXYETHYL CELLULOSE |
| 409. | * | 2218 | HYDROXYPROPYL CELLULOSE |
| 410. | * | 2220 | 2,2-IMINODIETHANOL |
| 411. | * | 2230 | IONONE |
| 412. | * | 2235 | INDENO(1,2,3,-C,D)PYRENE |
| 413. | * | 2240 | ISOAMYLENE |
| 414. | * | 2250 | ISOBUTANOL |
| 415. | * | 2260 | ISOBUTYL ACETATE |
| 416. | * | 2261 | ISOBUTYLENE |
| 417. | * | 2270 | ISOBUTYRALDEHYDE |
| 418. | * | 2280 | ISOBUTYRIC ACID |
| 419. | * | 2300 | ISODECANOL |
| 420. | * | 2320 | ISOOCTYL ALCOHOL |
| 421. | * | 2321 | ISOPENTANE |
| 422. | * | 2330 | ISOPHORONE |
| 423. | * | 2340 | ISOPHTHALIC ACID |
| 424. | * | 2350 | ISOPRENE |
| 425. | * | 2360 | ISOPROPANOL |
| 426. | * | 2370 | ISOPROPYL ACETATE |
| 427. | * | 2380 | ISOPROPYLAMINE(MONO) |
| 428. | * | 2390 | ISOPROPYL CHLORIDE |
| 429. | * | 2395 | ISOPROPYL ETHER |
| 430. | * | 2400 | ISOPROPYL PHENOL |

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| 431. | * | 2410 | KETENE |
| 432. | * | 2414 | LINEAR ALKYLATE SULFONATE |
| 433. | * | 2417 | LINEAR ALKYLBENZENE |
| 434. | * | 2420 | MALEIC ACID |
| 435. | * | 2430 | MALEIC ANHYDRIDE |
| 436. | * | 2440 | MALIC ACID |
| 437. | * | 2442 | MELAMINE |
| 438. | * | 2443 | MELAMINE-FORMALDEHYDE RES |
| 439. | | | INS |
| 440. | * | 2450 | MESITYL OXIDE |
| 441. | * | 2455 | METANILIC ACID |
| 442. | * | 2460 | METHACRYLIC ACID |
| 443. | * | 2490 | METHALLYL CHLORIDE |
| 444. | * | 2500 | METHANOL |
| 445. | * | 2510 | METHYL ACETATE |
| 446. | * | 2520 | METHYL ACETOACETATE |
| 447. | * | 2530 | METHYLAMINE |
| 448. | * | 2540 | N-METHYLANILINE |
| 449. | * | 2545 | METHYL BROMIDE |
| 450. | * | 2547 | METHYL BUTYL KETONE |
| 451. | * | 2550 | METHYL BUTYNOL |
| 452. | * | 2560 | METHYL CHLORIDE |
| 453. | * | 2570 | METHYLCYCLOHEXANE |
| 454. | * | 2590 | METHYLCYCLOHEXANONE |
| 455. | * | 2620 | METHYLENE CHLOPIDE |
| 456. | * | 2630 | METHYLENE DIANILINE |
| 457. | * | 2635 | METHYLENE DIPHENYL DIISOC |
| 458. | | | YANATE |
| 459. | * | 2640 | METHYL ETHYL KETONE |
| 460. | * | 2645 | METHYL FORMATE |
| 461. | * | 2647 | METHYLIONONES |
| 462. | * | 2650 | METHYL ISOBUTYL CARBINOL |
| 463. | * | 2660 | METHYL ISOBUTYL KETONE |
| 464. | * | 2662 | METHYL MERCAPTAN |
| 465. | * | 2665 | METHYL METHACRYLATE |
| 466. | * | 2670 | METHYLPENTYNOL |
| 467. | * | 2680 | METHYL SALICYLATE |
| 468. | * | 2690 | A-METHYLSTYRENE |
| 469. | * | 2700 | MORPHOLINE |
| 470. | * | 2701 | NAPHTHALENE |
| 471. | * | 2710 | A-NAPHTHALENE SULFONIC AC |
| 472. | | | ID |
| 473. | * | 2720 | B-NAPHTHALENE SULFONIC AC |
| 474. | | | ID |
| 475. | * | 2730 | A-NAPHTHOL |
| 476. | * | 2740 | B-NAPHTHOL |
| 477. | * | 2750 | NEOPENTANOIC ACID |
| 478. | * | 2756 | O-NITROANILINE |
| 479. | * | 2757 | P-NITROANILINE |
| 480. | * | 2760 | O-NITROANISOLE |
| 481. | * | 2762 | P-NITROANISOLE |
| 482. | * | 2770 | NITROBENZENE |
| 483. | * | 2780 | NITROBENZOIC ACID (M,O,P |
| 484. | | | ) |

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| 485. | * | 2790 | NITROETHANE |
| 486. | * | 2791 | NITROMETHANE |
| 487. | * | 2792 | 2-NITROPHENOL |
| 488. | * | 2793 | P-NITROPHENOL AND SODIUM |
| 489. | | | SALT |
| 490. | * | 2794 | 4-NITROPHENOL |
| 491. | * | 2795 | NITROPROPANE |
| 492. | * | 2800 | NITROTOLUENE |
| 493. | * | 2805 | N-NITROSODIPHENYLAMINE |
| 494. | * | 2806 | N-NITROSODIMETHYLAMINE |
| 495. | * | 2808 | N-NITROSODIPROPYLAMINE |
| 496. | * | 2810 | NONENE |
| 497. | * | 2820 | NONYLPHENOL |
| 498. | * | 2821 | NYLON 6 |
| 499. | * | 2822 | NYLON 66 |
| 500. | * | 2823 | NYLON 69 |
| 501. | * | 2824 | NYLON 11 |
| 502. | * | 2825 | NYLON 12 |
| 503. | * | 2826 | NYLON 612 |
| 504. | * | 2827 | OCTYL DECYL PHTHALATE |
| 505. | * | 2830 | OCTYLPHENOL |
| 506. | * | 2831 | OXO CHEMICALS (MISC.) |
| 507. | * | 2832 | POLYCHLORINATED BIPHENYLS |
| 508. | | | (MISC.) |
| 509. | * | 2833 | PCB-1242 |
| 510. | * | 2834 | PCB-1016 |
| 511. | * | 2835 | PCB-1248 |
| 512. | * | 2836 | PCB-1221 |
| 513. | * | 2837 | PCB-1254 |
| 514. | * | 2838 | PCB-1232 |
| 515. | * | 2839 | PCB-1260 |
| 516. | * | 2840 | PARALDEHYDE |
| 517. | * | 2841 | PENTACHLOROBENZENE |
| 518. | * | 2842 | 1,1,1,2,2-PENTACHLOROETHA |
| 519. | | | NE |
| 520. | * | 2843 | PENTACHLOROPHENOL |
| 521. | * | 2850 | PENTAERYTHRITOL |
| 522. | * | 2851 | N-PENTANE |
| 523. | * | 2855 | 1-PENTENE |
| 524. | * | 2860 | PERCHLOROETHYLENE |
| 525. | * | 2882 | PERCHLOROMETHYL MERCAPTAN |
| 526. | * | 2886 | PHENANTHRENE |
| 527. | * | 2890 | O-PHENETIDINE |
| 528. | * | 2900 | P-PHENETIDINE |
| 529. | * | 2905 | PHENOLIC RESINS |
| 530. | * | 2910 | PHENOL |
| 531. | * | 2920 | PHENOLSULFONIC ACIDS |
| 532. | * | 2925 | PHENOXY RESINS |
| 533. | * | 2930 | PHENYLANTHRANILIC ACID |
| 534. | * | 2940 | PHENYLENEDIAMINE |
| 535. | * | 2945 | 2,3-O-PHENYLENEPYRENE |
| 536. | * | 2950 | PHOSGENE |
| 537. | * | 2951 | C6-C10 PHTHALATE |
| 538. | * | 2955 | C10-C12 PHTHALATE |

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| 539. | * | 2960 | PHTHALIC ANHYDRIDE |
| 540. | * | 2970 | PHTHALIMIDE |
| 541. | * | 2973 | B-PICOLINE |
| 542. | * | 2976 | PIPERAZINE |
| 543. | * | 2980 | PHTHALIC ACID ESTERS (PLA |
| 544. | | | STICIZERS) |
| 545. | * | 2990 | POLYACETAL RESINS |
| 546. | * | 2992 | POLY-ALPHA-METHYL STYRENE |
| 547. | * | 2994 | POLYARYL ETHER |
| 548. | * | 2996 | POLYAMIDES |
| 549. | * | 2998 | POLYBENZIMIDAZOLES |
| 550. | * | 3000 | POLYBUTENES |
| 551. | * | 3002 | POLYBENZOTHIAZOLES |
| 552. | * | 3004 | POLYCARBONATES |
| 553. | * | 3005 | POLYETHYENE TEREPHTHALATE |
| 554. | * | 3007 | HIGH DENSITY POLYETHYLENE |
| 555. | * | 3009 | LOW DENSITY POLYETHYLENE |
| 556. | * | 3010 | POLYETHYLENE GLYCOL |
| 557. | * | 3012 | POLYIMIDES |
| 558. | * | 3014 | 4-METHYL-1-POLYMETHYL PEN |
| 559. | | | TENE |
| 560. | * | 3016 | POLYPHENYLENE SULFIDE |
| 561. | * | 3020 | POLYPROPYLENE AND COPOLYM |
| 562. | | | ERS RESIN/FIBER |
| 563. | * | 3025 | POLYPROPYLENE GLYCOL |
| 564. | * | 3030 | POLYSTYRENE AND COPOLYMER |
| 565. | | | S |
| 566. | * | 3033 | POLYSULFONE RESINS |
| 567. | * | 3036 | POLYURETHANE RESINS |
| 568. | * | 3040 | POLYVINYL ACETATE AND COP |
| 569. | | | OLYMERS |
| 570. | * | 3042 | POLYVINYL ALCOHOL |
| 571. | * | 3044 | POLYVINYL BUTYRAL |
| 572. | * | 3046 | POLYVINYL CARBAZOLE |
| 573. | * | 3047 | POLYVINYL CHLORIDE |
| 574. | * | 3049 | PVC COPOLYMERS |
| 575. | * | 3050 | POLYVINYL ETHERS |
| 576. | * | 3055 | POLYVINYL PYRROLIDONE |
| 577. | * | 3060 | POLYVINYLIDENE CHLORIDES |
| 578. | * | 3063 | PROPIONALDEHYDE |
| 579. | * | 3066 | PROPIONIC ACID |
| 580. | * | 3068 | PROPYL ACETATE |
| 581. | * | 3070 | N-PROPYL ALCOHOL |
| 582. | * | 3075 | PROPYLAMINE |
| 583. | * | 3080 | PROPYL CHLORIDE |
| 584. | * | 3090 | PROPYLENE |
| 585. | * | 3100 | PROPYLENE CHLOROHYDRIN |
| 586. | * | 3110 | PROPYLENE DICHLORIDE |
| 587. | * | 3111 | PROPYLENE GLYCOL |
| 588. | * | 3120 | PROPYLENE OXIDE |
| 589. | * | 3125 | PYRENE |
| 590. | * | 3130 | PYRIDINE (NATURAL AND SYN |
| 591. | | | THETIC) |
| 592. | * | 3140 | QUINONE |

| | | | |
|---|---|---|---|
| 593. | * | 3145 | RAYON |
| 594. | * | 3150 | RESORCINOL |
| 595. | * | 3160 | RESORCYLIC ACID |
| 596. | * | 3170 | SALICYLIC ACID |
| 597. | * | 3175 | SILICONES |
| 598. | * | 3180 | SODIUM ACETATE |
| 599. | * | 3181 | SODIUM BENZOATE |
| 600. | * | 3190 | SODIUM CARBOXYMETHYL CELL |
| 601. | | | ULOSE |
| 602. | * | 3191 | SODIUM CHLOROACETATE |
| 603. | * | 3200 | SODIUM FORMATE |
| 604. | * | 3210 | SODIUM PHENATE |
| 605. | * | 3220 | SORBIC ACID |
| 606. | * | 3230 | STYRENE |
| 607. | * | 3235 | SAN |
| 608. | * | 3240 | SUCCINIC ACID |
| 609. | * | 3250 | SUCCINONITRILE |
| 610. | * | 3251 | SULFANILIC ACID |
| 611. | * | 3260 | SULFOLANE |
| 612. | * | 3270 | TANNIC ACID |
| 613. | * | 3280 | TEREPHTHALIC ACID |
| 614. | * | 3283 | TETRABROMOETHANE |
| 615. | * | 3285 | 2,3,7,8-TETRACHLORODIBENZ |
| 616. | | | O-P-DIOXIN |
| 617. | * | 3286 | 1,2,3,4-TETRACHLOROBENZEN |
| 618. | | | E |
| 619. | * | 3287 | 1,2,3,5-TETRACHLOROBENZEN |
| 620. | | | E |
| 621. | * | 3289 | 1,2,4,5-TETRACHLOROBENZEN |
| 622. | | | E |
| 623. | * | 3290 | 1,1,2,2-TETRACHLOROETHANE |
| 624. | * | 3291 | 1,1,1,2-TETRACHLOROETHANE |
| 625. | * | 3300 | TETRACHLOROPHTHALIC ANHYD |
| 626. | | | RIDE |
| 627. | * | 3305 | TETRAETHYLENE DIAMINE |
| 628. | * | 3310 | TETRAETHYL LEAD |
| 629. | * | 3320 | TETRAHYDRONAPHTHALENE |
| 630. | * | 3330 | TETRAHYDROPHTHALIC ANHYDR |
| 631. | | | IDE |
| 632. | * | 3335 | TETRAMETHYL LEAD |
| 633. | * | 3340 | TETRAMETHYLENEDIAMINE |
| 634. | * | 3341 | TETRAMETHYETHYLENEDIAMINE |
| 635. | * | 3349 | TOLUENE |
| 636. | * | 3350 | TOLUENE-2,4-DIAMINE |
| 637. | * | 3354 | 2,4-TOLUENE DIISOCYANATE |
| 638. | * | 3355 | TOLUENE DIISOCYANATES (MI |
| 639. | | | XTURE) |
| 640. | * | 3360 | TOLUENESULFONAMIDE |
| 641. | * | 3370 | TOLUENESULFONIC ACIDS |
| 642. | * | 3380 | TOLUENESULFONYL CHLORIDE |
| 643. | * | 3381 | TOLUIDINES |
| 644. | * | 3385 | TOXAPHENE |
| 645. | * | 3390 | 1,2,3-TRICHLOROBENZENE |
| 646. | * | 3391 | 1,3,5-TRICHLOROBENZENE |

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  647.       *       3393   1,2,4-TRICHLOROBENZENE
  648.       *       3395   1,1,1-TRICHLOROETHANE
  649.       *       3400   1,1,2-TRICHLOROETHANE
  650.       *       3410   TRICHLOROETHYLENE
  651.       *       3411   TRICHLOROFLUOROMETHANE
  652.       *       3415   2,4,6-TRICHLOROPHENOL
  653.       *       3420   1,2,3-TRICHLOROPROPANE
  654.       *       3430   1,1,2-TRICHLORO-1,2,2-TRI
  655.                        FLUOROETHANE
  656.       *       3450   TRIETHYLAMINE
  657.       *       3460   TRIETHYLENE GLYCOL
  658.       *       3470   TRIETHYLENE GLYCOL DIMETH
  659.                        YL ETHER
  660.       *       3475   TRIETHYLENE TETRAAMINE
  661.       *       3480   TRIISOBUTYLENE
  662.       *       3490   TRIMETHYLAMINE
  663.       *       3500   UREA
  664.       *       3501   UREA FORMALDEHYDE RESIN
  665.       *       3510   VINYL ACETATE
  666.       *       3520   VINYL CHLORIDE
  667.       *       3530   VINYLIDENE CHLORIDE
  668.       *       3540   VINYL TOLUENE
  669.       *       3541   XYLENES (MIXED)
  670.       *       3550   M-XYLENE
  671.       *       3560   O-XYLENE
  672.       *       3570   P-XYLENE
  673.       *       3580   XYLENOL (MIXTURE)
  674.       *       3587   XYLENE SULFONIC ACID
  675.       *       3590   XYLIDINE
END DATA. ERRORS: NONE. TIME:  1.781 SEC. IMAGE COUNT: 675


:ADD,PL   -.L
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